

THE SWASTIKA,

THE EARLIEST KNOWN SYMBOL, AND ITS MIGRATIONS, WITH OBSERVATIONS
ON THE MIGRATION OF CERTAIN INDUSTRIES IN PREHISTORIC TIMES.

BY

THOMAS WILSON,

*Curator, Department of Prehistoric Anthropology,
U. S. National Museum.*

History



of the SWASTIKA



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PREFACE.

An English gentleman, versed in prehistoric archaeology, visited me in the summer of 1894, and during our conversation asked if we had the Swastika in America. I answered, "Yes," and showed him two or three specimens of it. He demanded if we had any literature on the subject. I cited him De Mortillet, De Morgan, and Zangrodski, and he said, "No, I mean English or American." I began a search which proved almost futile, as even the word Swastika did not appear in such works as Worcester's or Webster's dictionaries, the Encyclopædic Dictionary, the Encyclopædia Britannica, Johnson's Universal Cyclopædia, the People's Cyclopædia, nor Smith's Dictionary of Greek and Roman Antiquities, his Greek and Roman Biography and Mythology, or his Classical Dictionary. I also searched, with the same results, Mollet's Dictionary of Art and Archaeology, Fairholt's Dictionary of Terms in Art, "L'Art Gothique," by Gouss, Perrot and Chipiez's extensive histories of Art in Egypt, in Chaldea and Assyria, and in Phœnicia; also "The Cross, Ancient and Modern," by W. W. Blake, "The History of the Cross," by John Ashton; and a reprint of a Dutch work by Wil Jones. In the American Encyclopædia the description is erroneous, while all the Century Dictionary says is, "Same as fylfor," and "Compare *Cross Anasae and Gammedian*." I thereupon concluded that this would be a good subject for presentation to the Smithsonian Institution for "diffusion of knowledge among men."

The principal object of this paper has been to gather and put in a compact form such information as is obtainable concerning the Swastika, leaving to others the task of adjustment of these facts and their

arrangement into an harmonious theory. The only conclusion sought to be deduced from the facts stated is as to the possible migration in prehistoric times of the Swastika and similar objects.

No conclusion is attempted as to the time or place of origin, or the primitive meaning of the Swastika, because these are considered to be lost in antiquity. The straight line, the circle, the cross, the triangle, are simple forms, easily made, and might have been invented and re-invented in every age of primitive man and in every quarter of the globe, each time being an independent invention, meaning much or little, meaning different things among different peoples or at different times among the same people; or they may have had no settled or definite meaning. But the Swastika was probably the first to be made with a definite intention and a continuous or consecutive meaning, the knowledge of which passed from person to person, from tribe to tribe, from people to people, and from nation to nation, and, with possibly changed meanings, it has finally circled the globe.

There are many disputable questions broached in this paper. The author is aware of the differences of opinion thereon among learned men, and he has not attempted to dispose of these questions in the few sentences employed in their announcement. He has been conservative and has sought to avoid dogmatic decisions of controverted questions. The antiquity of man, the locality of his origin, the time of his dispersion and the course of his migration, the origin of bronze and the course of its migration, all of which may be more or less involved in a discussion of the Swastika, are questions not to be settled by the dogmatic assertions of any individual.

Much of the information in this paper is original, and relates to prehistoric more than to modern times, and extends to nearly all the countries of the globe. It is evident that the author must depend on other discoverers; therefore, all books, travels, writers, and students have been laid under contribution without scruple. Due acknowledgment is hereby made for all quotations of text or figures wherever they occur.

Quotations have been freely made, instead of sifting the evidence and giving the substance. The justification is that there has never been any sufficient marshaling of the evidence on the subject, and that the former deductions have been inconclusive; therefore, quotations of authors are given in their own words, to the end that the philosophers who propose to deal with the origin, meaning, and cause of migration of the Swastika will have all the evidence before them.

Assumptions may appear as to antiquity, origin, and migration of the Swastika, but it is explained that many times these only reflect the opinion of the writers who are quoted, or are put forth as working hypotheses.

The indulgence of the reader is asked, and it is hoped that he will endeavor to harmonize conflicting statements upon these disputed questions rather than antagonize them.

I.—DEFINITIONS, DESCRIPTION, AND ORIGIN.

DIFFERENT FORMS OF THE CROSS.

The simple cross made with two sticks or marks belongs to prehistoric times. Its first appearance among men is lost in antiquity. One may theorize as to its origin, but there is no historical identification of it either in epoch or by country or people. The sign is itself so simple that it might have originated among any people, however primitive, and in any age, however remote. The meaning given to the earliest cross is equally unknown. Everything concerning its beginning is in the realm of speculation. But a differentiation grew up in early times among nations by which certain forms of the cross have been known under certain names and with specific significations. Some of these, such as the Maltese cross, are historic and can be well identified.

The principal forms of the cross, known as symbols or ornaments, can be reduced to a few classes, though when combined with heraldry its use extends to 385 varieties.¹



Fig. 1.

LATIN CROSS (*Crux immissa*).

Fig. 2.

GREEK CROSS.



Fig. 3.

ST. ANDREW'S CROSS (*Crux decussata*).

It is not the purpose of this paper to give a history of the cross, but the principal forms are shown by way of introduction to a study of the Swastika.

The Latin cross, *Crux immissa*, (fig. 1) is found on coins, medals, and ornaments anterior to the Christian era. It was on this cross that Christ is said to have been crucified, and thus it became accepted as the Christian cross.

The Greek cross (fig. 2) with arms of equal length crossing at right angles, is found on Assyrian and Persian monuments and tablets, Greek coins and statues.

The St. Andrew's cross, *Crux decussata*, (fig. 3) is the same as the Greek cross, but turned to stand on two legs.

¹ William Berry, *Encyclopedia Heraldica*, 1828-1830.

The *Crux ansata* (fig. 4) according to Egyptian mythology, was Ankh, the emblem of Ka, the spiritual double of man. It was also said to indicate a union of Osiris and Isis, and was regarded as a symbol of the generative principle of nature.

The Tau cross (fig. 5), so called from its resemblance to the Greek letter of that name, is of uncertain, though ancient, origin. In Scandinavian mythology it passed under the name of "Thor's hammer," being therein confounded with the Swastika. It was also called St. Anthony's cross for the Egyptian hermit of that name, and was always colored blue. Clarkson says this mark was received by the Mithracists on their foreheads at the time of their initiation. C. W. King, in his work entitled "Early Christian Numismatics" (p. 214), expresses the opinion that the Tau cross was placed on the foreheads of men who cry after abominations. (Ezekiel ix, 4.) It is spoken of as a phallic emblem.



Fig. 4.

EGYPTIAN CROSS
(*Crux ansata*).
The Key of Life.

Another variety of the cross appeared about the second century, composed of a union of the St. Andrew's cross and the letter P (fig. 6), being the first two letters of the Greek word *ΧΡΙΣΤΟΣ* (*Christus*). This, with another variety containing all the foregoing letters, passed as the monogram of Christ (fig. 6).

As an instrument of execution, the cross, besides being the intersection of two beams with four projecting arms, was frequently of compound forms as Y, on which the convicted person was fastened by the feet and hung head downward. Another form Γ , whereon he was

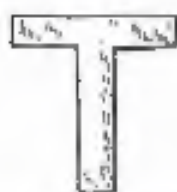


Fig. 5.

TAU CROSS, THOR'S HAMMER,
OR ST. ANTHONY'S CROSS.



Fig. 6.

MONOGRAM OF CHRIST.
Letter P of Christ.



Fig. 7.

MALTESE CROSS.

fastened by one foot and one hand at each upper corner; still another form Γ , whereon his body was suspended on the central upright with his arms outstretched upon the cross beams.

Fig. 7 represents the sign of the military order of the Knights of Malta. It is of medieval origin.

Fig. 8 (a and b) represents two styles of Celtic crosses. These belong chiefly to Ireland and Scotland, are usually of stone, and frequently set up at marked places on the road side.

Higgins, in his "Apocalypse," a rare and costly work, almost an encyclopaedia of knowledge,¹ says, concerning the origin of the cross, that the official name of the governor of Tibet, Lama, comes from the ancient Tibetan word for the cross. The original spelling was L-a-n-h. This is cited with approval in Davenport's "Aphrodisiacs" (p. 13).

Of the many forms of the cross, the Swastika is the most ancient. Despite the theories and speculations of students, its origin is unknown. It began before history, and is properly classed as prehistoric. Its description is as follows: The bars of the normal Swastika (frontispiece and fig. 9) are straight, of equal thickness throughout, and cross each other at right angles, making four arms of equal size, length, and style. Their

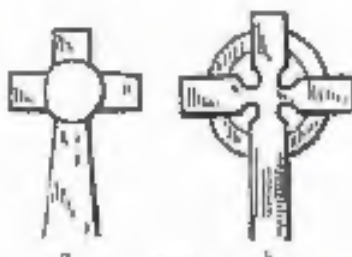


Fig. 9.
CROSS CRUISE.



Fig. 10.
NORMAL SWASTIKA.

Fig. 10.
SWASTIKA.

peculiarity is that all the ends are bent at right angles and in the same direction, right or left. Prof. Max Müller makes the symbol different according as the arms are bent to the right or to the left. That bent to the right he denominates the true Swastika, that bent to the left he calls

Swastika (fig. 10), but he gives no authority for the statement, and the author has been unable to find, except in Burnouf, any justification for a difference of names. Professor Goodyear gives the title of "Meander" to that form of Swastika which bends two or more times (fig. 11).



Fig. 11.
SWASTIKA
Meander.

The Swastika is sometimes represented with dots or points in the corners of the intersections (fig. 12a), and occasionally the same when without bent ends (fig. 12b), to which Zsigmondy gives



Fig. 12.
CRUX SWASTICALE (ZSIGMONDY).

the name of *Crux Swastica*. Some Swastikas have three dots placed equidistant around each of the four ends (fig. 12c).

¹Higgins, "Apocalypse," London, 1898, t. i, p. 730.

There are several varieties possibly related to the Swastika which have been found in almost every part of the globe, and though the relation may appear slight, and at first sight difficult to trace, yet it will appear more or less intimate as the examination is pursued through its ramifications. As this paper is an investigation into and report upon facts rather than conclusions to be drawn from them, it is deemed wise to give those forms bearing even possible relations to the Swastika. Certain of them have been accepted by the author as related to the Swastika, while others have been rejected; but this rejection



Fig. 12a.
TWO AND THREE QUARTER SWASTIKA.
Tetraskelion (four-armed).



Fig. 12b.
SWASTIKA AND TRISKELION.
Triskelion (three-armed).



Fig. 12c.
SWASTIKA AND PENTAGON.
Five or many armed.



Fig. 12d.
FOUR SWASTIKAS IN THE CIRCLE.

PECULIAR FORMS OF SWASTIKA

has been confined to cases where the known facts seemed to justify another origin for the symbol. Speculation has been avoided.

NAMES AND DEFINITIONS OF THE SWASTIKA

The Swastika has been called by different names in different countries, though nearly all countries have in a few years accepted the ancient Sanskrit name of Swastika, and this name is recommended as the most definite and certain, being now the most general and, indeed, almost universal. It was formerly spelled *svastika* and *suastika*, but the latter spelling, both English and French, is *swastika*. The definition and etymology of the word is thus given in Littré's French Dictionary:

Swastika, or *Swastika*, a mystic figure used by several East Indian sects. I was equally well known to the Brahmins and to the Buddhists. Most of the Greek inscriptions in the Greek capitals in the word of India are preceded or followed by the holy sacramental sign of the Swastika. E. A. Burnouf has often been quoted in Paris, 1822 p. 275. It was used in the magic and potency of Rhodé's 'Voyage en Égypte'. F. Delonnoy and 31 Nov 18 873 p. 1024 30 1 1.

Etymology: A Sanskrit word signifying happiness, pleasure, good luck, abundance of good, equivalent of Greek *eu*, "good," and *agathos*, "good being" with the suffix *ika* Greek and Latin *ica*.

jump to the conclusion that they all come from India, and to wipe out some more or less such prejudices.

the Hindustani sovereigns began their public buildings.

had with the sign of a *svastika* "the d-

Max Müller continues his explanation³

designs, the predecessor of Sa-

(See

BOOKS, LOWER SECTS

the Buddhists recognize no less than sixty. Even in the present

native was the sign of their symbol. Juss. Buphava (Cob-
p. 188, Indian Antiquary vol. 2, p. 135).

a cross. Thus we find it used in later times refer-

to be used with crossed staves (Richardson 75 18) and also

known with reference to persons sitting cross-legged

and Waring, *Ceramic Art in Remote Ages*, p. 83.

¹ "La Migration des symboles," p. 104

² "Ibid." pp. 347-348.

Bullington de la Société d'Anthropologie, 1894, p. 571

in pl. 10 of this paper

1. The first part of the document is a letter from the author to the reader, explaining the purpose of the study and the methods used. The second part is a list of references, and the third part is a list of figures and tables.

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Writing a program to do this with these definitions is a little more difficult. Noting that $\lambda(x) = \frac{1}{2}(\lambda_1(x) + \lambda_2(x))$, $\lambda_1(x) = \lambda_2(x)$ if and only if $\lambda_1(x) = \lambda_2(x)$, and $\lambda_1(x) \neq \lambda_2(x)$ if $\lambda_1(x) \neq \lambda_2(x)$, we can write the program as follows:

[illegible][illegible]

R. P. Greenhouse

[illegible]

time and area, says ⁵

Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains. The concentration of the suspension was 10⁶ cells/ml. The transformation efficiency was determined by the number of transformants per 10⁶ cells.

¹⁴⁴ *Black Tides*,⁴ p. 17.

¹¹¹ *Cyranos Art in Remoto Agent*, p. 12.

Paris, 1888, p. 474.

* *Archaeologia*, XLVII pt 1 p. 158

■ ¹⁶ *Corpuscular Art e Recurso Artístico*, p. 11.

He again we find the first of the two phases of the swastika mentioned as being a symbol of the good fortune which would be bringing the Indians. This swastika is embodied in Ancient Names," concerns

It is a symbol for the swastika which was used by the Indians in the Veda and the Puranas, but it is not told in the Veda.¹

The swastika is a symbol of good fortune, and it is a symbol of the good fortune which would be bringing the Indians. This swastika is embodied in Ancient Names," concerns

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¹ "Les Sciences et Religions," pp. 303, 357.

Vol. XI.

² "La Migration des Symboles," pp. 61-62.

³ "Archæologie," XLVIII, pt. 2, pp. 332, 333.

⁴ "Early History of Mankind," p. 267, note C.

[Illegible text]

The first of these is the question of the nature of the
 the second is the question of the nature of the
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 the tenth is the question of the nature of the

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1. The first part of the document is a title page. It contains the title "THE HISTORY OF THE UNITED STATES OF AMERICA" and the author "BY JAMES M. SMITH". It also includes the publisher's information: "NEW YORK: PUBLISHED BY J. B. LIPPINCOTT & CO., 15 N. 4TH ST. 1854."

⁴ Հարմար ցլուցում, X44 II, րճ. Ը, քր. 324 և 285

¹¹¹ "La Migration des symboles," p. 64.

[illegible]

lotus, anubis and lotus, the lion and lotus, the sphinx and anubis, the gryphon and anubis, the serpent and lotus, the ram and lotus—all of which anubis, as well even the otus, have—, his opinion some related significant to be said of some—his opinion—, in it of the opinion that the lotus motif was the foundation of the Egyptian style of architecture and that it appeared as in early date, say, the fourteenth century B. C. By interchanging anubis with the Greeks formed the foundation of the Greek Ionic capitals which, he says, "offers us



Fig. 18.

VEGETAL MOTIF IN EGYPTIAN
ART.



Fig. 19.

VEGETAL MOTIF IN GREEK
ART.



Fig. 20.

VEGETAL MOTIF IN ARABIAN
ART.

From the "Grammar of the Lotus," p. 10.

dates, a sample of the author's opinion—, on each century B. C. He supports his contention by authority, argument, and illustration.

Goodyear's transfer of the lotus motif to Greece, and its use as an ornament in the painted vases like on those from Cyprus, Rhodes, and Sicily (figs. 15, 16, 17)

Goodyear notes the presence of spirals similar to those of fig. 1—, in the terracottas of northern Italy and up and down the Danube, and in fig. 188 (fig. 17) he says represents the decorating motif, the most frequent in all that part of prehistoric Europe. He cites "Notes sur les torques ou ornements spirals,"¹⁴

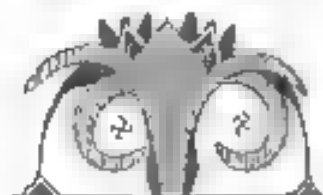


Fig. 21.

DETAIL OF FIGURE 18, AND SHOWING
LOTUS MOTIF IN GREEK ART.

From the "Grammar of the Lotus," p. 10.

of objects with purely sacred and mythological characters in Egypt—and after words is returned is accepted. How far the extent of the direction contained in by Professor Goodyear, is no part of the investigation. It appears well established that in both countries it became a highly conventionalized and traditional motif for the purpose of decoration—that it became associated with the Swastika. Figs. 18 and 19

Goodyear, "The Grammar of the Lotus," pp. 1, 2.

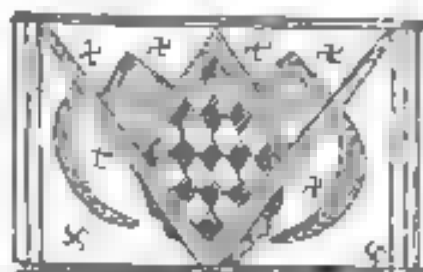
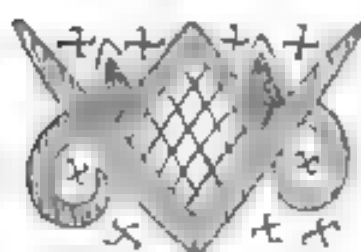
Ibid., p. 71.

Ibid., pp. 74, 7.

¹⁴"Age du Bronze," dixième partie, p. 301.

¹⁵Museo della Storia Naturale di Napoli, vol. 1, p. 10.

representation of the swastika in the form of a swastika, being a symbol of good luck and happiness. The New York Metropolitan Museum of Art, New York.



The swastika, being a symbol of good luck and happiness, was used by the ancient Egyptians in their art and architecture.

As the swastika was used by the ancient Egyptians, it was exaggerated and finally became spiral and, which, being projected at a right angle, forms the swastika. The swastika is shown in the form of a swastika, being connected to right and left, spread the ornament over an extended



Fig. 24

The swastika, being a symbol of good luck and happiness, was used by the ancient Egyptians in their art and architecture. The swastika is shown in the form of a swastika, being connected to right and left, spread the ornament over an extended. The swastika is shown in the form of a swastika, being connected to right and left, spread the ornament over an extended. The swastika is shown in the form of a swastika, being connected to right and left, spread the ornament over an extended.



Fig. 25

The swastika, being a symbol of good luck and happiness, was used by the ancient Egyptians in their art and architecture. The swastika is shown in the form of a swastika, being connected to right and left, spread the ornament over an extended. The swastika is shown in the form of a swastika, being connected to right and left, spread the ornament over an extended. The swastika is shown in the form of a swastika, being connected to right and left, spread the ornament over an extended.

* Grammar of the Lotus, p. 8, p. 81.

* Ibid., pp. 82-84.

* Ibid., p. 86.

* Ibid., p. 87.

* Ibid., p. 88.

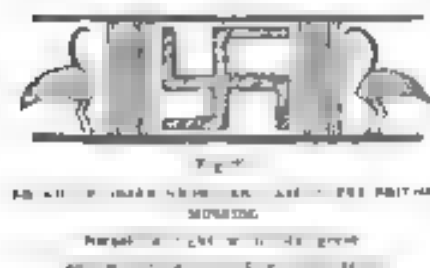
* Ibid., p. 89.

* Ibid., p. 90.

* Ibid., p. 91.

[illegible]

Count Goblet d'Alviella, following Ludwig Müller, Percy Gardner, S. Beal, Edward Thomas, Max Müller, H. Chadwick, and other authors, accepts their theory that the Swastika was a symbol representing one of the sun or of a sun god, and argues at length to this effect.



tends to be a symbol of a nation or a people. Each of the six symbols is represented as being from a single nation of people. They are prehistoric or of high antiquity and most of them appear to have no other evidence of their representation of the sun than is contained in the symbol itself, so that the first objection is to the premises, in wit, that while his symbols may have some times represented the sun, it is far from certain that they are

La Migration des Symboles.⁴¹ *ibid.*, t. VI, p. 68.

²⁵*Ibid.*, n. 67.

FILE NO. 10-1-3-50



Greeks, and Celts, have represented by signs more or less uniform. Examining his fig. wherein signs of the various people are set forth. It is to be remarked, that the signs of the Celts are the most apparent resemblance to the signs of the Greeks given, either with the signs of the Celts or the signs of the Celts.



As a person who is familiar with the
 United States, I can tell you that we work

the first of these is the fact that the majority of the population of the United States is now living in urban centers. This is a result of the migration of the population from rural areas to cities, which has been going on since the beginning of the century. The second factor is the fact that the majority of the population is now living in the Eastern half of the country. This is a result of the migration of the population from the Western half of the country to the Eastern half, which has been going on since the beginning of the century. The third factor is the fact that the majority of the population is now living in the Southern half of the country. This is a result of the migration of the population from the Northern half of the country to the Southern half, which has been going on since the beginning of the century. The fourth factor is the fact that the majority of the population is now living in the Central half of the country. This is a result of the migration of the population from the Eastern half of the country to the Central half, which has been going on since the beginning of the century. The fifth factor is the fact that the majority of the population is now living in the Western half of the country. This is a result of the migration of the population from the Eastern half of the country to the Western half, which has been going on since the beginning of the century. The sixth factor is the fact that the majority of the population is now living in the Northern half of the country. This is a result of the migration of the population from the Southern half of the country to the Northern half, which has been going on since the beginning of the century. The seventh factor is the fact that the majority of the population is now living in the Southern half of the country. This is a result of the migration of the population from the Northern half of the country to the Southern half, which has been going on since the beginning of the century. The eighth factor is the fact that the majority of the population is now living in the Central half of the country. This is a result of the migration of the population from the Eastern half of the country to the Central half, which has been going on since the beginning of the century. The ninth factor is the fact that the majority of the population is now living in the Western half of the country. This is a result of the migration of the population from the Eastern half of the country to the Western half, which has been going on since the beginning of the century. The tenth factor is the fact that the majority of the population is now living in the Northern half of the country. This is a result of the migration of the population from the Southern half of the country to the Northern half, which has been going on since the beginning of the century.

[illegible]

assumptions are not evidence of the fact.

The following information was obtained from the records of the Department of Health and Human Services, Office of the Assistant Secretary for Health Policy and Statistics, regarding the activities of the National Commission on the Causes and Prevention of Violence.

The Commission was established by Executive Order on September 8, 1969, under the authority of the President John F. Kennedy Library Act of 1964. The Commission's mandate was to study the causes and prevention of violence in the United States and to report its findings and recommendations to the President.

The Commission was composed of members from various Federal agencies, State governments, and private organizations. Its work was organized into several committees and subcommittees, each focusing on different aspects of the problem of violence.

The Commission held numerous public hearings and received many suggestions and criticisms from the general public. It also conducted extensive research and analysis of the available data on violence.

In July 1970, the Commission issued its final report, "The Causes and Prevention of Violence." This report provided a comprehensive overview of the complex issue of violence and offered detailed recommendations for preventing future acts of violence.

The Commission's work has been instrumental in shaping national policy on violence prevention and has led to the implementation of many programs and initiatives aimed at reducing violence in the United States.

¹⁶ La Morantion des Symboles," pp. 77, 78, 77.

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do no harm, and possibly may do good.

Conclusion is not warranted

- Athenaeum, August 20, 1892, p. 263
 * Numismatische Chronik, 1890, xx pp. 12-13
 * Madras Journ. of Lit. and Sci. III, pl. 8

1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes the need for transparency and accountability in financial reporting.

2. The second part of the document outlines the various methods and techniques used to collect and analyze data. It includes a detailed description of the experimental procedures and the statistical analysis performed.

3. The third part of the document presents the results of the study. It includes a series of tables and graphs that illustrate the findings of the research. The data shows a clear trend in the relationship between the variables studied.

4. The fourth part of the document discusses the implications of the findings. It highlights the potential applications of the research in various fields and the need for further investigation.

5. The fifth part of the document concludes the study. It summarizes the key findings and provides a final statement on the significance of the research.

Greg J. Jurek

[illegible]

10. The following information was obtained from a company's ledger for the month of July:

The first of these is the fact that the
 second of these is the fact that the
 third of these is the fact that the
 fourth of these is the fact that the
 fifth of these is the fact that the
 sixth of these is the fact that the
 seventh of these is the fact that the
 eighth of these is the fact that the
 ninth of these is the fact that the
 tenth of these is the fact that the

[illegible]

¹ *Philosophia*, ΣΤΕΠ, pt. 5, p. 426

* KMPILONG, 37.5' III, 04. 0. 13 406

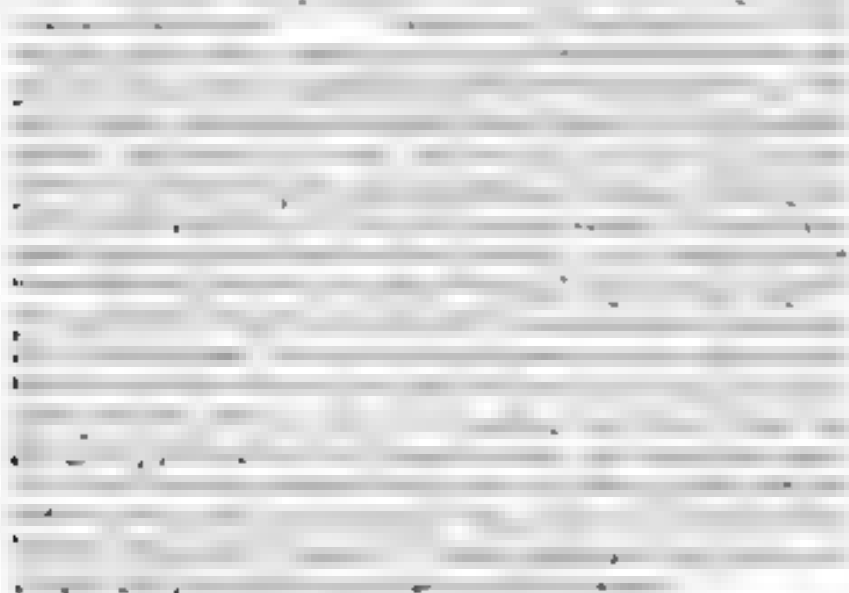
⁷ *Proc. Amer. Philosoph. Soc.*, 1884 XXX, p. 180



part of the wheel which means day, or when
 swastika. These dots will be found in a

is decisive" as to the meaning of the symbol in German.

meaning is likely to be somewhat similar wherever the sym-



ORIGIN AND HABITAT



The first step in the process of the investigation is the identification of the problem. This is done by the investigator who is responsible for the investigation. The next step is the collection of data. This is done by the investigator who is responsible for the investigation. The third step is the analysis of the data. This is done by the investigator who is responsible for the investigation. The fourth step is the interpretation of the data. This is done by the investigator who is responsible for the investigation. The fifth step is the presentation of the results. This is done by the investigator who is responsible for the investigation. The sixth step is the conclusion. This is done by the investigator who is responsible for the investigation. The seventh step is the recommendation. This is done by the investigator who is responsible for the investigation. The eighth step is the implementation of the recommendation. This is done by the investigator who is responsible for the investigation. The ninth step is the evaluation of the implementation. This is done by the investigator who is responsible for the investigation. The tenth step is the final report. This is done by the investigator who is responsible for the investigation.

The first of these is the fact that the
 data is not normally distributed. The
 data is skewed to the right, with a
 long tail of high values. This is
 evident from the histogram, which
 shows a peak at the low end of the
 scale, with a long tail extending
 to the right. This is a common
 feature of many real-world data
 sets, and it is important to be
 aware of it when analyzing the data.
 The second of these is the fact that
 the data is not independent. The
 data is correlated, with values at
 one time point being related to
 values at other time points. This
 is evident from the autocorrelation
 function, which shows a strong
 positive correlation between values
 at different time points. This is a
 common feature of many real-world
 data sets, and it is important to be
 aware of it when analyzing the data.
 The third of these is the fact that
 the data is not stationary. The
 data is non-stationary, with the
 mean and variance changing over
 time. This is evident from the
 time series plot, which shows a
 clear upward trend in the data.
 This is a common feature of many
 real-world data sets, and it is
 important to be aware of it when
 analyzing the data.

The following is a list of the names of the persons who have been identified as having been in contact with the subject of this investigation, and who have been identified as having been in contact with the subject of this investigation, and who have been identified as having been in contact with the subject of this investigation.

The "Goddess" is a figure of a woman, seated, with her hands on her knees, and her feet crossed. She is wearing a long, flowing robe, and a headband. The figure is shown in a three-quarter view, facing right. The background is a plain, light color.

Professor Goodyear says:

The figure is a seated female figure, possibly a goddess or a queen, wearing a long, flowing robe and a headband. The figure is shown in a three-quarter view, facing right. The background is a plain, light color.

found in Greek gymnastic pottery
the informal answering way pl. 91
style.

The figure is a seated female figure, possibly a goddess or a queen, wearing a long, flowing robe and a headband. The figure is shown in a three-quarter view, facing right. The background is a plain, light color.

southern bowl of the beginning is equally clear

The figure is a seated female figure, possibly a goddess or a queen, wearing a long, flowing robe and a headband. The figure is shown in a three-quarter view, facing right. The background is a plain, light color.

1 and 4 and figs. 17 and 174.

The figure is a seated female figure, possibly a goddess or a queen, wearing a long, flowing robe and a headband. The figure is shown in a three-quarter view, facing right. The background is a plain, light color.

The figure is a seated female figure, possibly a goddess or a queen, wearing a long, flowing robe and a headband. The figure is shown in a three-quarter view, facing right. The background is a plain, light color.

fig. 174

The figure is a seated female figure, possibly a goddess or a queen, wearing a long, flowing robe and a headband. The figure is shown in a three-quarter view, facing right. The background is a plain, light color.

The figure is a seated female figure, possibly a goddess or a queen, wearing a long, flowing robe and a headband. The figure is shown in a three-quarter view, facing right. The background is a plain, light color.

* "Grammar of the Lotus," p. 312 of seq.

* Archaeologia, XLVI: pl. 1, p. 159

II.—DISPERSION OF THE SWASTIKA.

EXTREME ORIENT

JAPAN.

The Swastika was to Japan a matter of well-known antiquity. Fig. 21 represents a bronze statue of the Buddha seated on a lotus, from Japan, in the collection of Mr. Ceram, a dealer in high-class Swastikas on the pedestal, the ends all turned at right angles to the right. This specimen is said to be of the 10th century because it relates to prehistoric man. The image or statue holds a cane in the form of a "tiki-tiki" with the image arranged to make a ringing noise and Dr. Hensley asserted it in his volume to show the likeness of this work in Japan with a number of similar objects found in the Swiss lake dwellings of the prehistoric age of 1000 B.C.

The Swastika mark was employed by the Japanese on their porcelain. Sir Augustus W. Franks² shows one of these marks, a small Swastika turned to the left and enclosed in a circle (fig. 30). Fig. 9 also represents a mark on Japanese bronzes.³

KOREA.

The U. S. National Museum has acquired a Korean carrying chair from Korea. It has eight Swastika marks on a stool, the base having corners, two on each corner, all looking eastward. The Swastika



Fig. 30.

See also
"Korea"

Dr. Hensley, "The
Swastika in Korea,"
p. 10.

is a mark with arms
right angles, the ends
at right angles and
the right
at right angles. The arms are
at right angles of each mark has a 180
degrees. The appearance of these marks is the Swastika, a high

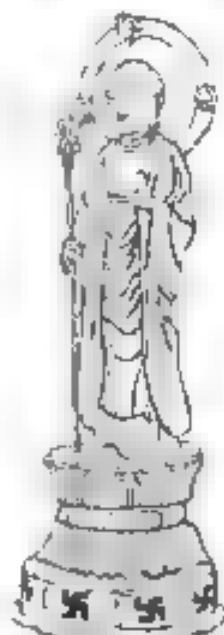


Fig. 21.

See also
"Korea"

CHINA.

In the Chinese language the sign of the Swastika is pronounced "su" and means for many "good" or "well" and is said to be "good" and is a symbol of good luck and long

¹ Musée Historique, fig. 1290. Bull. Soc. d'Anthrop., 1890, p. 230-232, 246.

² Catalogue of Oriental Porcelain and Pottery, p. 109.

³ De Morgan, "An Occurrence," fig. 180.



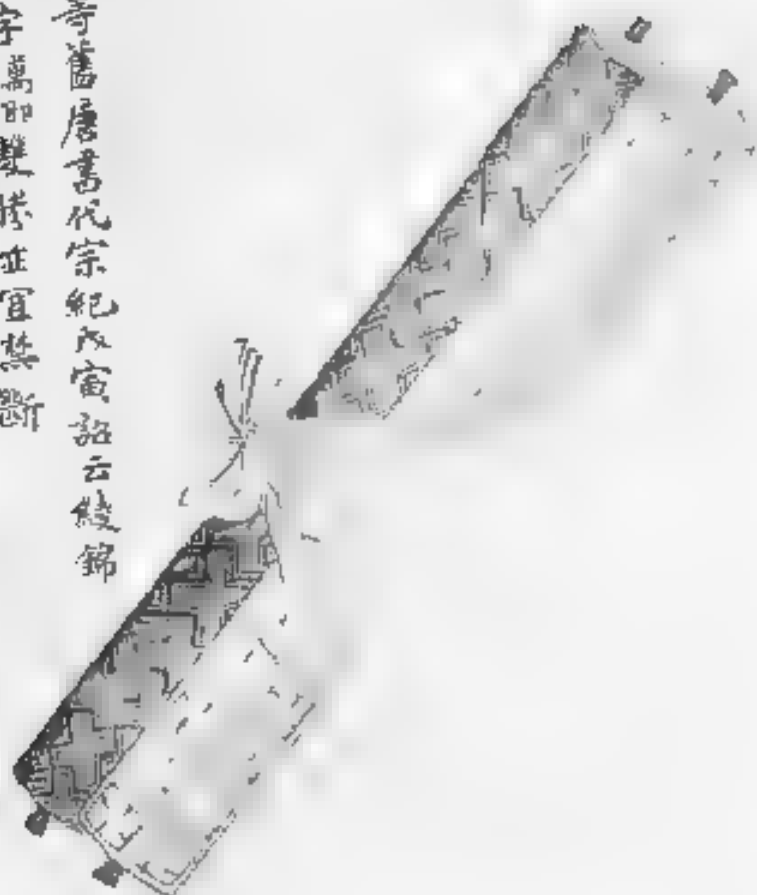
DRAGON OF BUDDHA AND POINT TO THE SKY, WITH SVASTIKA SIGN
 This is a drawing of the figure of a Buddha and a Bodhisattva, with the figure of a dragon
 (Naga) in the background.

唐武后僭稱大周天冊金輪神聖皇帝自
造文字曰為日月為日星為日當時為
善廓造浮圖銘法門寺碑，聖聖信法
寺碑，潘尊師謁後嘉祥浮圖銘王仁
求碑，梁師亮墓誌銘，石橋碑，岳嶺
碑，凡日字皆作日形

BRASANA DEERED BY EM. THESE WU 683 904 A D A A SIGN FOR
SUN IN CH 54

Person & drawing by the 2 persons in the 1st column. The 2nd column is the name of the person who drew the picture.

晉劉昫等舊唐書代宗紀大寶詔云綾錦
 所織萬字_凡萬卽雙勝並宜禁斷



SWAGS - A DESCRIPTION OF THE PATTERN

The two fragments are made of silk and are from the same piece. The top fragment is a piece of the same material as the bottom fragment. The bottom fragment is a piece of the same material as the top fragment. The two fragments are made of silk and are from the same piece.

唐馬督雲仙雜記
易人家乞巧使蜘蛛
結萬字又宋王平仲
設苑每八景喜瓜景
上習蛛網成花



SINASTIKA IN SPIDER WEB - VER. 5.1.10

© 1935 by the artist

reproduced in the book "The Spider Web" by the artist, published by the artist, 1935, 4

宋宋白文苑英華唐鳳閣侍郎李元意
進拍牛一頭額上青篆字萬即賜馬一匹
李嶠代為表

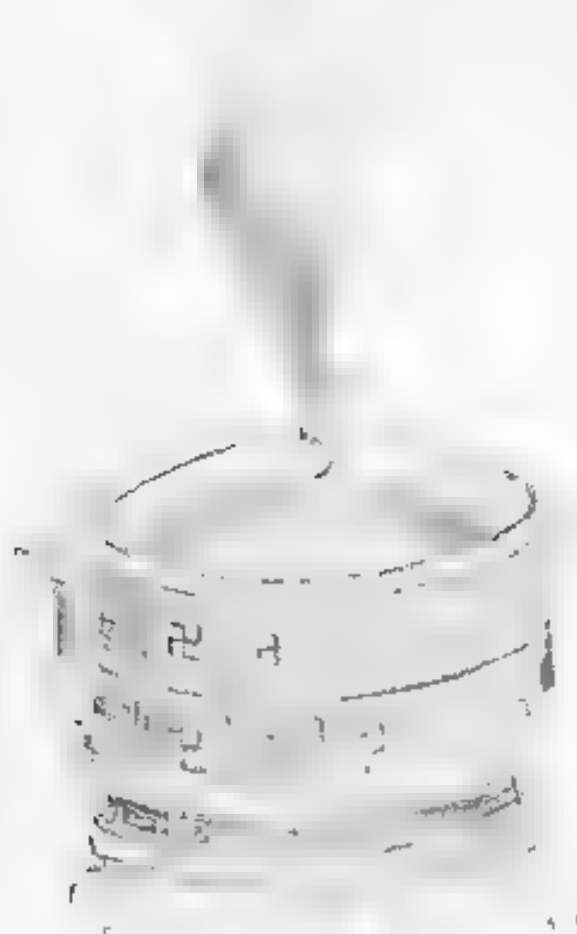


BUFILE NOIT SEATING ON FURNITURE

By (1) and (2) $\sum_{i=1}^n m_i \neq 0$ and $\sum_{i=1}^n m_i \neq 0$.

From a high level of abstraction, the model is a set of nodes and edges. The nodes are the components of the system, and the edges are the interactions between them. The model is a graph, where the nodes are the components and the edges are the interactions. The model is a graph, where the nodes are the components and the edges are the interactions.

宋陶穀清異錄南唐李煜長秋圖民居
柔儀殿具焚香之器青卮字

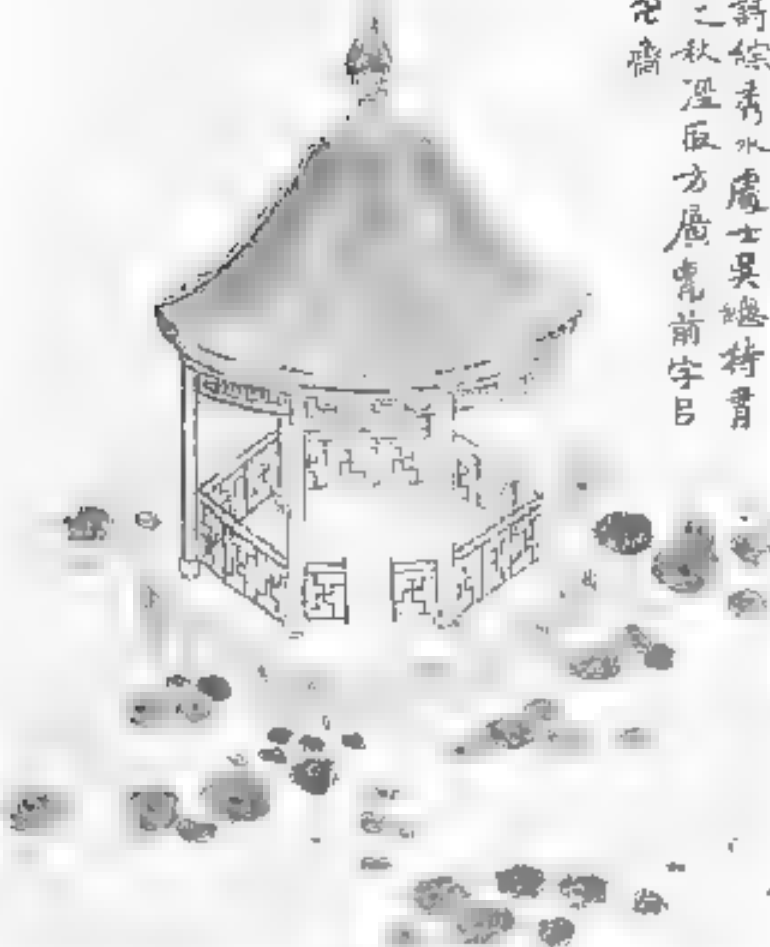


100% 100% 100% 100% 100%

100% 100% 100%

100% 100% 100% 100% 100% 100% 100% 100% 100% 100%

朱彝尊明詩綜秀水處士吳越持青
大宅在北郭之秋溫版方屬虎前字呂
為曲洧名曰龍齋

[illegible]

of which had the Swastika design on it. [Pl. 6.]

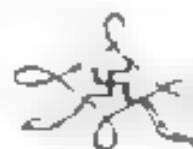
The first of the two is a small, square, black, glazed tile, with a white, swastika design on it. It is a fragment of a larger tile, and is found in the ruins of the house. [Pl. 7.]

The second is a small, square, black, glazed tile, with a white, swastika design on it. It is a fragment of a larger tile, and is found in the ruins of the house. [Pl. 8.]

The Swastika is a symbol of good luck, and is found in many places. It is a symbol of good luck, and is found in many places. It is a symbol of good luck, and is found in many places.

Many of the symbols found in the ruins of the house are of the same type as the Swastika. They are symbols of good luck, and are found in many places.

The Swastika is a symbol of good luck, and is found in many places. It is a symbol of good luck, and is found in many places. It is a symbol of good luck, and is found in many places.



The Swastika is a symbol of good luck, and is found in many places. It is a symbol of good luck, and is found in many places. It is a symbol of good luck, and is found in many places.

The Swastika is a symbol of good luck, and is found in many places. It is a symbol of good luck, and is found in many places. It is a symbol of good luck, and is found in many places.

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The Swastika is a symbol of good luck, and is found in many places. It is a symbol of good luck, and is found in many places. It is a symbol of good luck, and is found in many places.

¹ "Pottery and Porcelain," p. 204.

² "Rice," p. 302.

³ "The Swastika," p. 100.

⁴ "La Migration des Symboles," p. 55.

⁵ "The Swastika," p. 100.

TABLE

M. W.

... ..

... ..

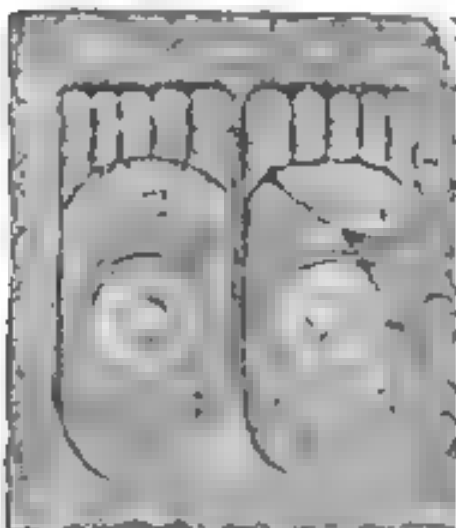


FIG. 12.

and that it is also placed upon the breasts of their dead.

He also reports a Buddhist statue at the Musée Guimet with Swastikas about the base. He does not state to what country it belongs, so the author has no means of determining if it is the same statue as is represented in fig. 23.

FIGURE

of the Swastika

Christian archaeologists believe this was the most ancient sign of the cross. It was used among the Benlunians from all antiquity (Voyez mot Swastika dans notre Dictionnaire encyclopédique.)

It corresponds to "benediction" among Christians.

The

... ..

... ..

... ..

... ..

... ..

מקורות.⁷ (Krym'skii vol na. Vol. II, p. 110.)

The Grubbs experiment

Went Provisions and Duds), says:

It is drawn up the sleeve heads of children
freely with Swastika in the water depicted
Campbell, Notes, p. 70. In the district
water for Manning, Ancient India, II, 1901.

tion of the resident's signature

On page 250 he continues thus:

are not in length and some deposited on the

[illegible][illegible]

and the β -phase is 1.1×10^{-4} cm² s⁻¹ at 100°C. The β -phase is the only phase that is stable at 100°C, and the β -phase is the only phase that is stable at 100°C.

physical plane must eliminate the hind of sex

and

We add four other ideas by



Fig. 11

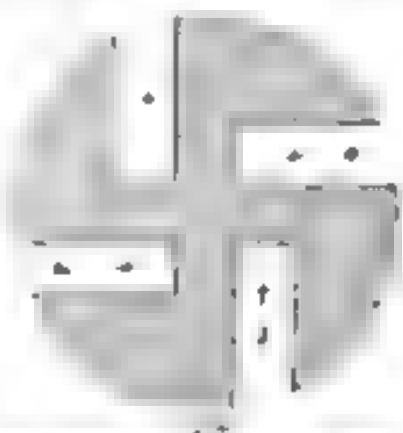
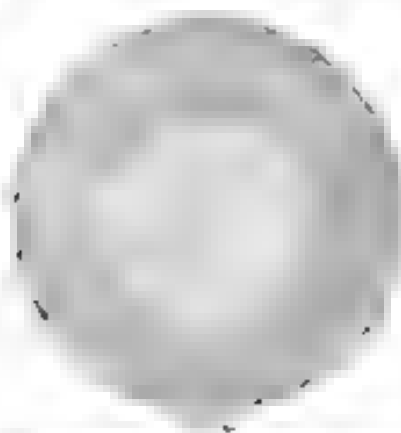
that state is the next step with to plant and animal life. Then follows the third stage—the human. Then the

held to mean life in other worlds than our own. All these

conditions are combinations of matter and soul on differ-



higher than the male and female



them more permanent

Mr Gaudhi says the *Jains* make the sign of the Swastika as frequently and deftly as the *Roman Catholics* make the sign of the cross. It is not confined, to be true, to the priests or monks. Whenever or wherever a benediction or blessing is given, the Swastika is used. Figs 34 a, b, c form a series showing how it is made. A handful of rice, mool, flour, sugar salt, or any similar substance, is held over a circle or space, say, 3 inches in diameter as *four eighth of an inch deep* (fig. 34a), then commences at the outside of the circle (fig. 34b), on its upper or further off hand corner and draws the finger through the meal just to the left of the center 1, (only or more to the opposite or near edge of the circle 2), then again to the right 3), then upward 3), finally

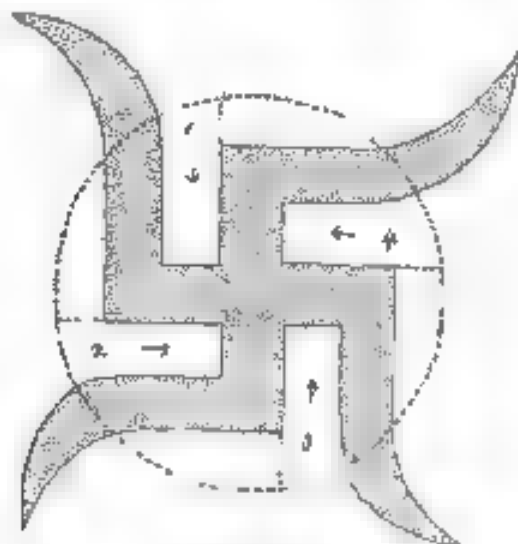


FIG. 34c.

with indication of direction of swastika. (HINDU SWASTIKA.)

Note: usual (out, to, pointing outwards) human and club-like use as shown in fig. 43.

to the left where it joins with the first mark 1. The arms are swept outward, the dots and crescent put in place, and the sign is complete (fig. 34c).

The sign of the Swastika is reported in great numbers by hundreds and now by thousands, in the inscriptions on the rock walls of the hinduist caves in India. It is needless to copy them, out is enough to say that they all have four arms and the arms are at right angles or nearly so, indifferently to the right or to the left. The following list of inscriptions, containing the Swastika, is taken from the first book coming to hand, the "Report of Dr. James Fergusson on the Hindustani Cave Temples and their Inscriptions, Being a Part of the Result of the Fourth,

Dr. Person D. Al. also. The editor Ludwig Muller, says that the Swastika is manifest only by its presence in certain coins of the Arsacides and the Sassanides.

PHENICIA

I was misled by various authors that the Swastika had never been found in Phenicia, e. g. Max Muller, J. L. Waring, August Chabot, & others.¹

Dr. Deussen, however, says that the Swastika is not found in Phenicia, but in Syria, that the monogram of the Phoenician language brought in from the far east also is reduced to the same character, and the north of Africa. (See p. 790.)

LYCAONIA

Lempriere, in his Classical Dictionary under the above title, gives the following:

A district of Asia Minor forming the south-western quarter of Thracia. The origin of its name is uncertain, but the explanation is to all eyes plain. It is not accidental that it is found in the middle of the tradition of the younger Cypriote king, who is said to have been the first to introduce the worship of the goddess Minerva into the country. It was repopulated from the time of its destruction by the king of Maudon, comprehending a large district of which in later times was termed Lycia.

Conrad Leake, Alcock, and other Greek and English states that the Histria introduced the Swastika on a coin relief of the Emperor, where it forms a member of the robe of a king or priest offering a sacrifice to a god.

ARMENIA.

M. J. de Morgan, the present director of the Louvre Museum at Paris, under the patronage of the French Government, made extensive excavations and studies into the prehistoric antiquities and archaeology of Armenia. His report is entitled "Le Premier Age de l'Antiquité en Arménie Romaine."² He excavated a number of prehistoric monuments, and found there a variety of forms of the Swastika on certain vases and metal objects. The Swastika, though present, was more rare. He found it on the head of the vase of the first monument, and on one piece of pottery found from the prehistoric tombs. The bent arm was a common symbol, and would be the Swastika of Prof. Max Muller.



FIG. 1. The Swastika.

From the Louvre Museum, Paris.

¹ Det Selskabske Hæftene, Copenhagen, 1877.

² La Migration des Symboles, pp. 61, 62.

³ Bull. de la Soc. d'Anthrop., December 6, 1898, xi, p. 671.

⁴ La Migration des Symboles, p. 61.

⁵ Histoire de l'Art dans l'Antiquité, iv.

Abhandl. Wissenschaftl. an Caucasus.

The design is a circle with a small cross in the center. The forgers of brands on cattle in that country. One of his genuine brands is a circle with a small cross in the center. The forgers consists in elongating each arm of the cross and turning it with a scroll, forming an ogee Swastika, fig 13d, which, curiously enough, is practically the same brand.

Mr. Frederick Houghton, the celebrated artist and literateur, has a brand on a horse in Florida, wherein he discourses of the forgery of brands on cattle in that country. One of his genuine brands is a circle with a small cross in the center. The forgers consists in elongating each arm of the cross and turning it with a scroll, forming an ogee Swastika, fig 13d, which, curiously enough, is practically the same brand.

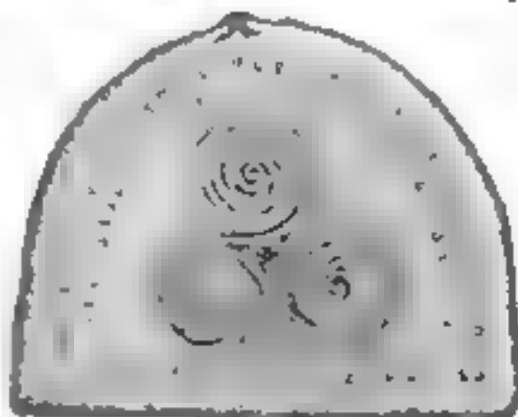


Fig. 13d.
A genuine brand on a horse.



Fig. 13e.

Max Müller has a brand on a horse, wherein he discourses of the forgery of brands on cattle in that country. One of his genuine brands is a circle with a small cross in the center. The forgers consists in elongating each arm of the cross and turning it with a scroll, forming an ogee Swastika, fig 13d, which, curiously enough, is practically the same brand.

attempts to account for the use of that mark horses in Circassia fig 41, and



Max Müller has a brand on a horse, wherein he discourses of the forgery of brands on cattle in that country. One of his genuine brands is a circle with a small cross in the center. The forgers consists in elongating each arm of the cross and turning it with a scroll, forming an ogee Swastika, fig 13d, which, curiously enough, is practically the same brand.

arms; total, 430.

* Harper's Magazine, August, 1881.

Anna de la Motte, Anthrop., 1882.

* *Quatrième Congrès International d'Anthropologie et*
Paris, 1889, p. 474.

them. They are arranged in the order of a cross, the length being indicated in feet.

The *Thien-an-hoan* (No. 3) to 74 feet deep. The specimen is oval-shaped, long 43 centims. and Swastikas are two. One is plain

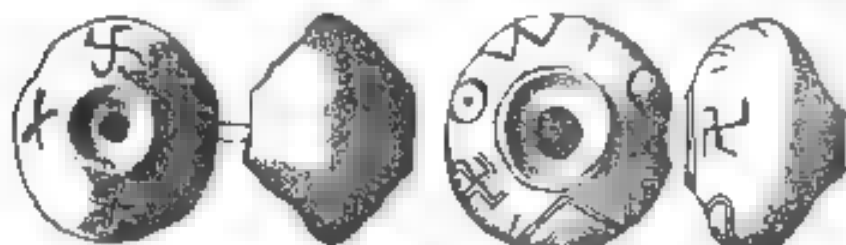


Fig. 43.
MIRROR-WHORL WITH TWO SWASTIKAS.
No. 3.
Depth, 74 feet.
Length, 43 centims.

Fig. 44.
MIRROR-WHORL WITH TWO SWASTIKAS.
No. 4.
Depth, 100 feet.
Length, 43 centims.

Swastika, the other is bent to the right, the right angles being indicated by a dot. The other Swastika has two bends, one at right angles, the other curved both to the right. The specimen shown in fig. 44 has two Swastikas, in one of which the four arms are bent at right angles to the left. The entire figure is traced in



Fig. 45.
MIRROR-WHORL WITH TWO SWASTIKAS.
Depth, 34 feet.
Length, 43 centims.

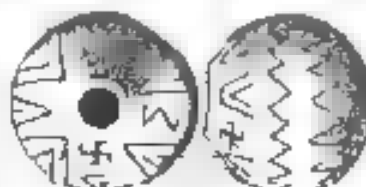


Fig. 46.
MIRROR-WHORL WITH TWO SWASTIKAS.
No. 5.
Depth, 100 feet.
Length, 43 centims.

double lines, or a heavy border. The whorl shown in fig. 45 is nearly spherical, with two Swastikas. The second Swastika has its right angles indicated by a dot. The entire figure is traced in double lines taper to a point. The whorl shown in fig. 46 is nearly spherical, with two Swastikas. The first Swastika

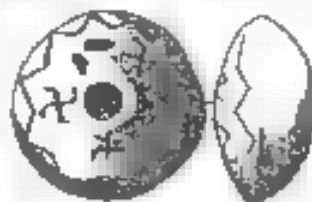


Fig. 48.
MIRROR-WHORL WITH TWO SWASTIKAS.
No. 6.
Depth, 100 feet.
Length, 43 centims.

The ends of the four arms in both are bent at right angles, one to the right, the other to the left. Fig. 46 represents a spherical whorl with two circular Swastikas. One arm is bent at right angles to the right, the other to the left. The ends of the four arms and points are uncertain and of uncertain length. The entire figure is traced in double lines taper to a point. The whorl shown in fig. 47 is nearly spherical, with two Swastikas. The first Swastika

The entire figure is traced in double lines taper to a point. The whorl shown in fig. 48 is nearly spherical, with two Swastikas. The first Swastika

The specimen shown in fig. 5 contains four perfect Swales and two immature ones overlain. Some of the latter have been accidentally broken up by the hammer. The four Swales are of a fairly uniform height to the right, some are greater than at left, a general one and a half inch. Several ends are tapered to a point. The specimen is well preserved in form. It is made of Swales, top and bottom of which are seen.

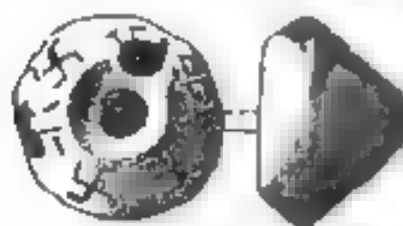
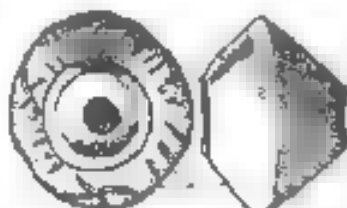


Fig. 11

Poly-Crystalline Silicon Thin-Film Solar Cells

Distrib. in fruit.

5. *Substrates*



1702

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17 JUL 1994

Depth, 25 feet

form. The outer rim is a circle, nearly right angles, the
grooves carrying the light. In fig. 6, the center of the upper
surface is filled with a cross, the center of which is the center of the wheel, with on each of the four arms
a representation of a Swastika. The outer rim is all the way at right angles,
the ends taper to a point, some with slight curves and a small flourish. (See figs. 33 and 34 for refer-
ence to this flourish.) The specimen shown in fig. 54 has a center field in
its upper part, of which the decoration consists of nested parallel lines
forming segments of circles, repeated in each one of the four quar-
ters of the field. The center hole is surrounded by two concentric
rings of nested lines. In one of these spaces is a single Swastika
angle, two of its ends are close to a right angles, the other two
in the same direction and curved



7

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P. B. A., L.A.

1464

5. May 1973

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Flc

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418

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The Fourth City (13.2 to 17.6 feet deep). Nebelmann says

[illegible]

illustrations of a similar sign from different countries. See pp. 241. The latter series in black represents an animal, each character

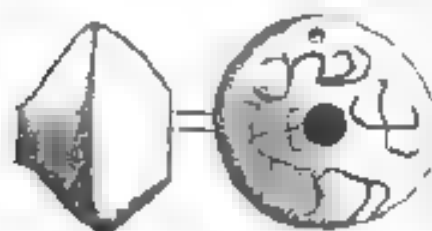


Fig. 56.
MUSICAL SPINNING WHEEL WITH ONE SWASTIKA

other right angles and the two ends are bent up at right angles to the right. The other two are curved and to the right. Two of the other figures Dr. Schlegelmann calls Swastikas, although they are uncertain in some of their arms and angles. The fourth character he imagined to be an incense or attempted Swastika. Fig. 58 shows a musical wheel with curves and an incense character. One of them wears a crude Swastika, which when the wheel is turned at right angles the ends are bent at uncertain angles, three to the left and one to the right. These characters are so undetermined that it is doubtful if they could have had any signification, either ornaments, or otherwise. Fig. 59 is almost conical, the flat surface thereof being only slightly raised at the center. It is much the same form as the wheel shown in Fig. 55. The four flat surfaces are equidistant from the center

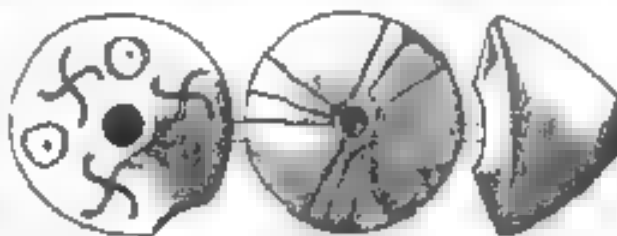


Fig. 58.
MUSICAL SPINNING WHEEL WITH ONE SWASTIKA

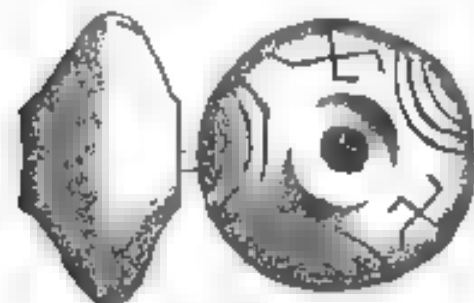


Fig. 59.
MUSICAL SPINNING WHEEL WITH TWO SWASTIKAS

and from each other are three other Swastikas in double lines, with the only a curved to the right. In the center there are small incense wheels with dots in the centers. In Fig. 60 a musical

whorl is shown. It has three of the circle segments marked on each lateral position, with three or four parallel lines, after the style shown in fig. 52. In the spaces are two Swastikas, in both of which the two main arms cross at right angles. Some of the ends bend at a right, and others at an obtuse angle. In one of the Swastikas the bent ends turn toward each other, forming a rude figure 8.

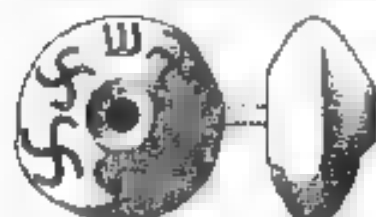


FIG. 51.
SPINDLE-WHORL WITH THREE OR FOUR
SWASTIKAS.
Depth .84 in.
Schubert, "Zool." Pl. 183.

The specimen shown in fig. 61 is biconical, but much flattened; it contains five ogee Swastikas, of which the ends of four bend to the right and one to the left. In an interval between them is one of the horn of a ram. Fig. 53 shows three Swastikas with double parallel lines. The two main arms cross each other at right angles; the ends are bent at nearly right angles, one to the left, one to the right, and the other both ways. Fig. 53 represents a spindle-whorl with a cup-shaped depression around the central hole, which is surrounded by three lines in concentric circles, while on the field, at 90 degrees from each other, are four ogee Swastikas tetraphelions. The arms all turn to the left and spirally one upon another. The specimen shown in



FIG. 52.
SPINDLE-WHORL WITH THREE
OR FOUR LINES.
Depth .84 in.
Schubert, "Zool." Pl. 183.

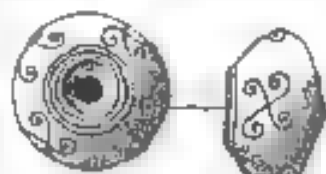


FIG. 53.
SPINDLE-WHORL WITH THREE SWAS-
TIKAS WITH DOUBLE LINES.
Depth .84 in.
Schubert, "Zool." Pl. 183.

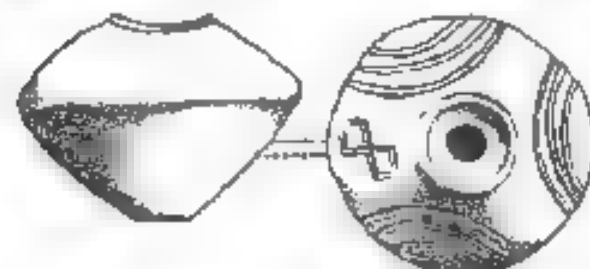


FIG. 54.
BICONICAL SPINDLE-WHORL WITH ONE SWASTIKA.
Depth .84 in.
Schubert, "Zool." Pl. 183.

fig. 64 is biconical, though, as usual, the upper band is the smallest. There are parallel lines, three in a set, forming the segments of three circles, in one space of which appears a Swastika of a circular and conical form, similar to that shown in fig.

61. The two main arms cross each other at very nearly right angles and the ends also bend at right angles toward and approaching each other, so

lines, three in number, arranged in segments of three circles, the periphery of which is toward the center, as in figs. 60 and 61. In one of the spaces is a Swastika of curious form, the main arms cross each other at right angles, but the four ends represent different styles—two are bent square to the left, one square to the right, and the fourth curves to the left at no angle. Fig. 60 shows a bisected wheel, and its top is decorated to represent three Swastikas

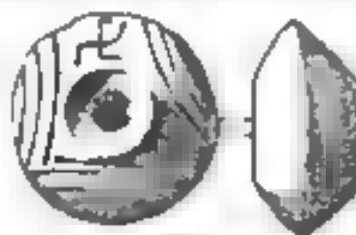


FIG. 60

while two or three are curved; two of them show corrections, the marks at the ends having been changed in one case at a different angle and in another from a straight line to a curve. Fig. 67 shows four speci-

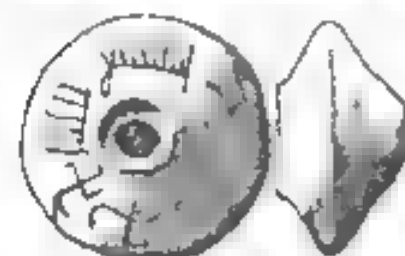


FIG. 61

mens of Swastika, the main arms of all of which cross at right angles. The ends all bend to the right, at nearly right angles, tapering to a point (fig. 34b). They are alternated with

a few round medallions. The Swastika is also found in the form of a small object, as in fig. 34c. The Swastika is also found in the form of a small object, as in fig. 34c.

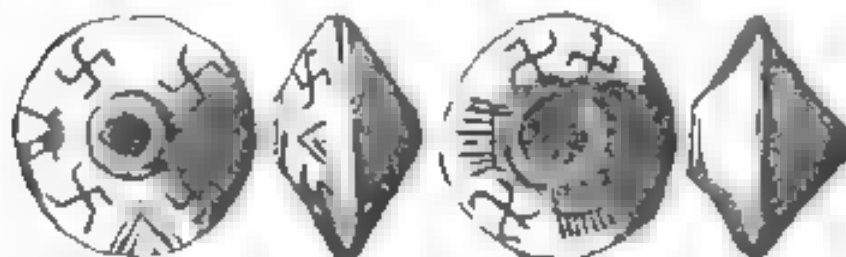


FIG. 62

The Swastika is also found in the form of a small object, as in fig. 34c. The Swastika is also found in the form of a small object, as in fig. 34c.

The Swastika is also found in the form of a small object, as in fig. 34c. The Swastika is also found in the form of a small object, as in fig. 34c.

in the field of fig. 78. Two fairly well formed Swastikas appear, both of the ogre style, with the ends curved to the right. One is of the style resembling the figure 8 (see figs. 60 and 64). Two others are crudely and irregularly formed, and would scarcely be recognized as Swastikas except for their association. Fig. 79 represents uncertain and unformed Swastikas. The

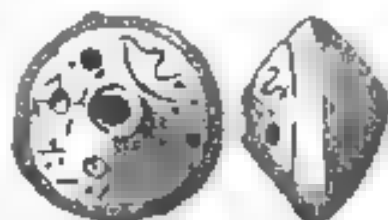


Fig. 78

Fig. 79: Two circular objects, possibly coins or medallions, featuring Swastika symbols. The left object shows a Swastika with a central dot and radiating lines. The right object shows a Swastika with a central dot and a vertical line through it.

ends are not well formed. The two ends are present and the field is more or less covered with a meandering line at least once well

marked. Fig. 80 also illustrates the indefinite and indefinite style of decoration. One unfinished Swastika appears which, unlike anything we have yet seen, has a circle with a dot in the center for the body of the Swastika at the crossing of the main arm. Fig. 81 shows two Swastikas, both crossing their main arms at right angles and the ends bending also at right angles—one to the right, the other to the

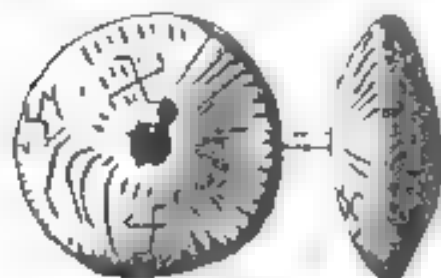


Fig. 80

Fig. 81: Two circular objects, possibly coins or medallions, featuring Swastika symbols. The left object shows a Swastika with a central dot and radiating lines. The right object shows a Swastika with a central dot and a vertical line through it.

left. This specimen is a specimen of the indefinite style. It shows four augmented circles with an indefinite Swastika in one of the spaces. The ends are not well turned, only one being well attached to the main arm. One of the ends is not joined, one overruns and forms a sort of cross; the other has no end. The Swastika is a meandering Swastika, the ends are not well formed at right angles, turning to the

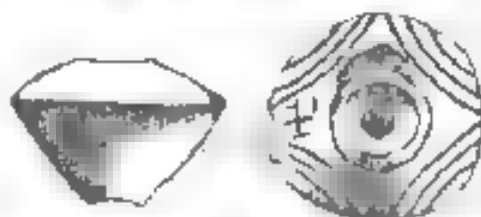


Fig. 81

Fig. 82: Two circular objects, possibly coins or medallions, featuring Swastika symbols. The left object shows a Swastika with a central dot and radiating lines. The right object shows a Swastika with a central dot and a vertical line through it.

The Swastika is a meandering Swastika, the ends are not well formed at right angles, turning to the

of the Swastika is a good specimen, as, whatever cross or circle the outer parts of the disk are composed of, the parallel lines of the circle

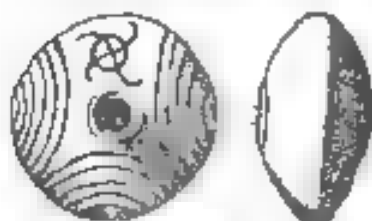


FIG. 83.
Diameter, 1.5 inch. Thickness, .5 inch.
Length, 1.5 inch. Width, .5 inch.
Color, black. Material, stone.

segment, as shown in many other specimens. The specimen shown in fig 84 is similar in style to the last. The bodies of six Swastikas are formed by a circle and dot, while the arms of the cross start from the outside of the circle, extending themselves in curves, all of them to the right (see fig. 13d). It has no other ornamentation. The same remark is made about the different use of the Swastika in association with

other symbols. We have seen many Swastikas composed of the crossed lines of a cross, and many others, but none so simple as these, which may be considered as the

Swastika, yet they show a relationship of form from which the derivation of a Swastika would be easy.

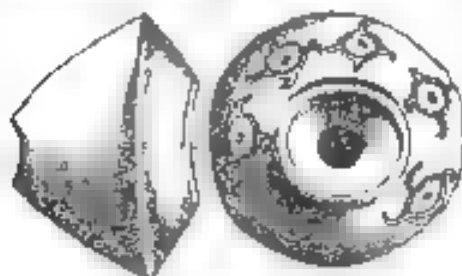
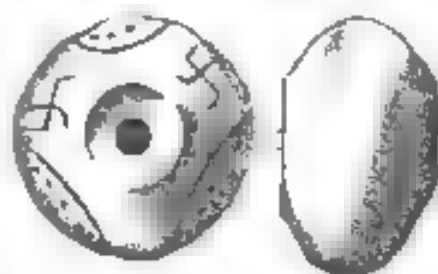


FIG. 84.
Diameter, 1.5 inch. Thickness, .5 inch.
Length, 1.5 inch. Width, .5 inch.
Color, black. Material, stone.



FIG. 85.
Diameter, 1.5 inch. Thickness, .5 inch.
Length, 1.5 inch. Width, .5 inch.
Color, black. Material, stone.

Attention has been called to decorations consisting of segments of the circles used in those which the mystery of which is toward their centers (figs. 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000).

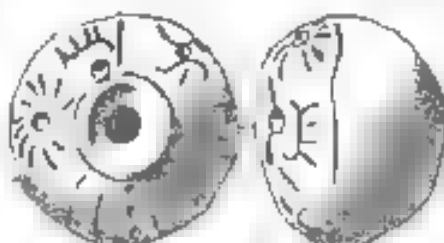
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\mathbb{R}^n 上のベクトル場 X を考える。このとき、 X の積分曲線は、 X の流れ ϕ_t によって生成される。



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Fig. 10. Two circular objects, possibly coins or medallions, showing intricate designs. The left object features a central circular motif surrounded by a ring of smaller circles, with a swastika-like symbol at the top. The right object shows a similar design with a central circle and a ring of smaller circles, but with a different arrangement of symbols.

[illegible]

from each other, as 1, 5, 8, were never found associated and it was conclusively shown that they were related, were the same object, all served a similar purpose, and together formed an evolutionary series showing their common origin, their growth and continuous improvement, always by combination between their makers or owners.

Thus it may be with the other forms of crosses, and thus it appears to be with the circle and spiral Swastikas and those with ends bent in opposite and different directions. Just what their

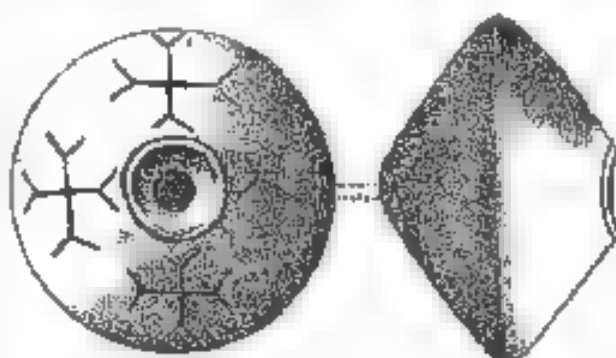


Fig. 44.

LARGE BRONZE WHEEL
Four spokes with decorated arms.
Third city. Depth, 14 feet
Baltimore, 11 Dec. 1910

relations are and at which end of the series the evolution began is not argued. This is left for the theorists and magicians, protesting, however, that they were not to be pushed far beyond bounds. Fig. 44 represents four crosses, the main arms of which are at right angles, and each arm a lobe, instead of being turned at an angle which would make them Swiss flags, are bifurcated, and form both

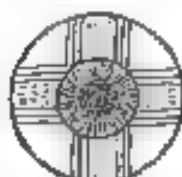


Fig. 45.

SECOND WHEEL.

Hub and large circle in center
with four spokes at right angles

Third city. Depth, 14 feet
Baltimore, 11 Dec. 1910



Fig. 46.

THIRD WHEEL.

Hub and large circle in center
The small circles on the spokes
forming a wheel rim

Third city. Depth, 14 feet
Baltimore, 11 Dec. 1910



Fig. 47.

FOURTH WHEEL.

Greek cross, square arms
with dots

Third city. Depth, 14 feet
Baltimore, 11 Dec. 1910

ways, then forming a foliated cross similar to the May cross, or a Tree of Life. Figs. 45, 46 and 47 show Greek crosses. The centers of the crosses are surmounted by the center, hole of the wheel, while the arms extend to the periphery. In the centers of the respective arms are the dots. This, which might here be asked what these dots, which represented circles, stood for the sun symbol or solar disk. The

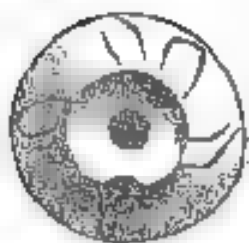
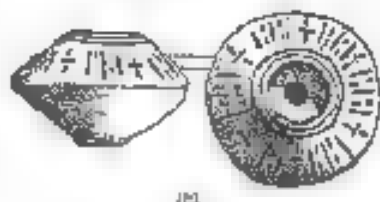


FIGURE 134
YUKON PINKIE TUBES
Gardner 1119

... of ... of ... (Dr. ...) ...
 The ... of ... and ... in the ...
 ... and ...
 to be ...
 ...
 ing report.

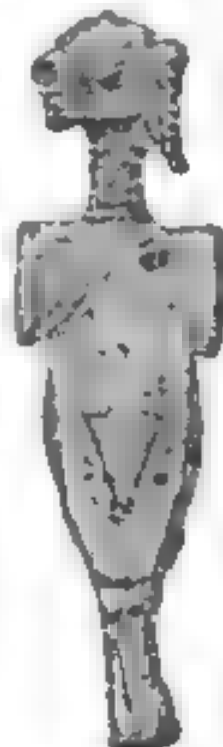
In "Troje" Professor Sayce says

Precisely the same figure, with ringlets on either side of the head, but with a different ornament dots ...
 ... recently found in Mesopotamia, and published by M. Salmei Kuhn in *Revue Archéologique*. By the side of the ...
 ...
 ... is the representation of one of the *tetra-cotis* wheels, of which Dr. Kuhnmann found such multitudes at Troy.

The chief interest to us of Dr. Schliemann's ...

The vulva is represented by a large triangle in the ...
 see two lines of dots to the right and left of the vulva. The most curious ornament of the figure is a swastika, which we see in the middle of the vulva. ...
 far as we know, the only figures to which the ... before us has any resemblance are the female figures of white ... found in tombs in Attica and in the Cyclades. Six of these, which are in the museum at Athens, ...
 represent naked women. ... The vulva is represented on the six figures by a large triangle. ...
 Similar white Parian marble figures, found in the Cyclades, whereon the vulva is represented by a detached triangle, are preserved in the British Museum. Lenor ...

"The architecture of the Cyclades, in the form of a naked



... is represented on the ... of which begins in the most ...

"Troje," fig. 226, p. 537

"Ibid., p. 338.

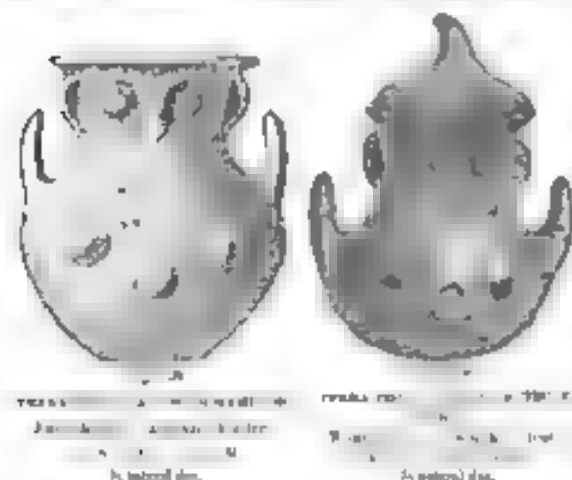
"See p. 716

that we remarked in this mark as in on the vulva as recorded by Schlimmer. But rather on a thing which would have covers the men-
menstruation

As I have said, the first of these is on the evidence of this lesson del-
 on the first side was, among other things, a symbol of the generative
 power of man.

At the same time, it is not a little curious to find, at the same time, that
 out of a whole lot of similar triangular forms, the one that is on the
 body were with the same way, present in the form of the same
 of the same. These forms have been known to the ancient, appar-
 ently for a long time. The U. S. National Museum has some
 of these in its collection. The first of these is a figure of a man
 The same is on the same. It is not a little curious to find, at the same time,
 that the same is on the same, and whether the same is a symbol of the
 power of man.

On the other hand, it is not a little curious to find, at the same time,
 that the same is on the same, and whether the same is a symbol of the
 power of man.



It is not a little curious to find, at the same time,
 that the same is on the same, and whether the same is a symbol of the
 power of man.

In going to the same, for a little more, we find the same, at the same time,
 that the same is on the same, and whether the same is a symbol of the
 power of man.

[illegible][illegible][illegible][illegible]

AFRICA

418 V. S. Kuznetsov

A consensus of the oil industry officials said the Saudis have no intention of giving the U.S. Gulf Tax Multinational Forum, an annual Council of Oil Field & Aerial

Ward, C. J. 2009.

The unit-slope approximation to the log probability plot is shown in Fig. 4. It is seen from this figure that the curve is very similar to our Fig. 6.

M. Greg says "In Egypt his wife does not meet him & other
in London say they know her." It is a very interesting story of a woman who
married a man at first sight. The man was a Frenchman and she was

The FBI report, dated 1968, was not a true and accurate representation of the actual situation in the field. It was a mere compilation of information received from the field offices and was not a true and accurate representation of the actual situation in the field. (See, e.g., *id.* at 97, Nos. 163 and 173.)

⁴⁴ Ibid., pp. 210–211.

● 王祖望(1911—1991) 杭州人，作家，著7部

• "Tschu" N. 111.

^d „Im Interpretation des Symbolischen,” pp. 51–52.

“Corporals Are in Uniform Again,” p. 41.

Archaeologia 81, pt. 1, p. 150.

* *Grammar of the Lounz*, pl. 50, figs. 2 and 10, p. 56.

H. M. 99, pt. 3—13

Naxos.—Figs. 130 to 135, made after illustrations in Mr. W. Flanders Petrie's *Excavations at Naucratis* (London, 1890).



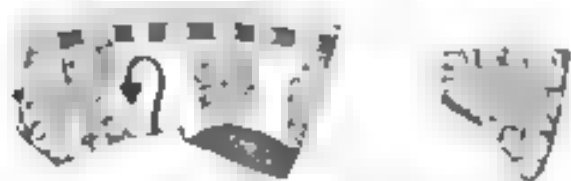
mountainous Syria like. It should be explained that these are said to be Greek vases which have been imported into Egypt. Such, while found in Egypt and so classed geographically, they are not Egyptian, but Greek. *Coptos* (*Achmim* or *Panopolis*). Within the past few years great discoveries

have been made at Naucratis, the Fayum, and Achmim, the last of which was the ancient city of Panopolis. The inhabitants of Naucratis and the surrounding harbor cities were Christian Greeks, who migrated from their country during the first centuries of our era and settled in this land of Egypt. Strabo mentions these people and their ability as weavers and embroiderers. Discoveries have been made of their cemeteries, winding sheets, and grave clothes. These clothes have been subjected to analytic investigation, and it is the conclusion of M. Gerspach, the administrator of the national manufactory of the Gobelins tapestry, Paris, that they were woven in the same way as the Gobelins. The Gobelins tapestries do not differ essentially from them. He adds:

These Egyptian tapestries and those of the Gobelins are the result of work which is identical except in some secondary details, so that I have been able, without a doubt, to reproduce these Coptic tapestries in the Gobelins manufactory.

On one of these Coptic clothes, made of linen, "Achmim-Panopolis," by B. Forrer, conservator





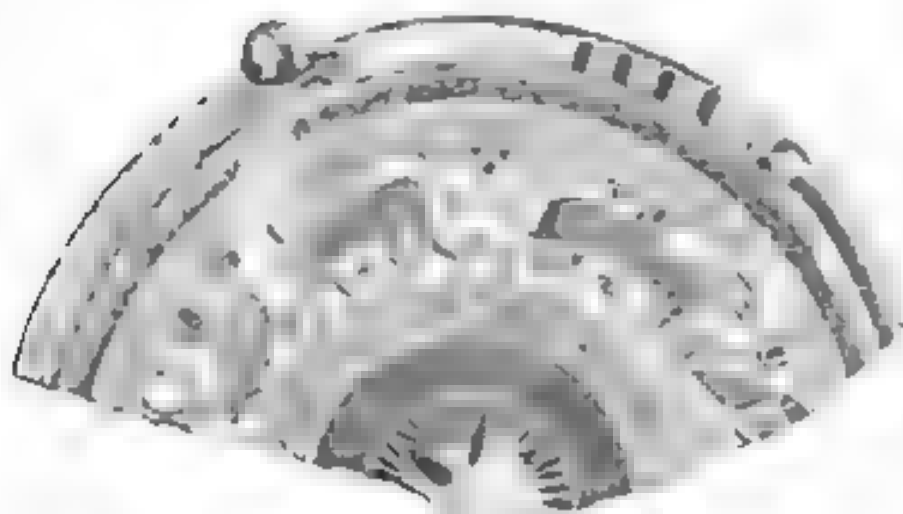
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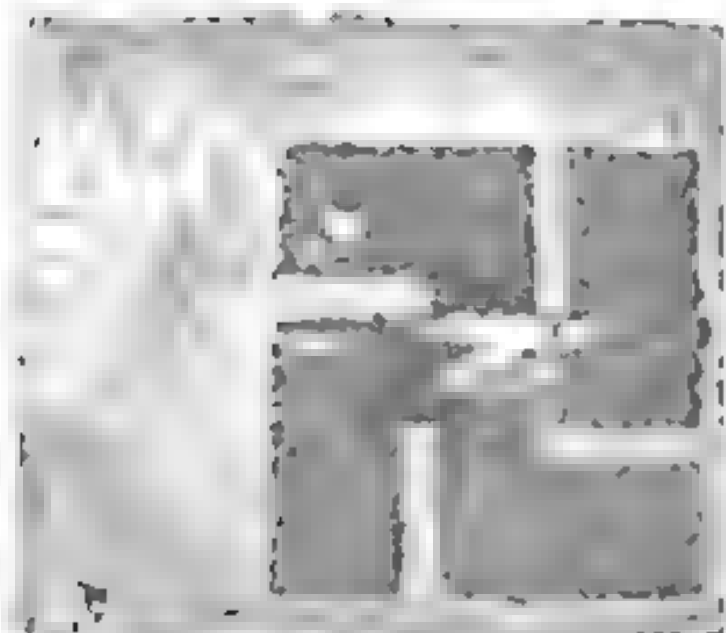


... ..

... ..

... ..





sometimes occurring the corners of the figure, and as a large medallion, as shown in the figure,

FIGURE 137.

Written in Sanskrit is *Ap.* (fig. 137). The Swastika, which is also shown (fig. 137) on the



Fig. 137.

THE SWASTIKA IN THE MUSEUM.

THE SWASTIKA IN THE MUSEUM.

THE SWASTIKA IN THE MUSEUM.

here), the base of a column from a ruined Roman building in Algeria (fig. 137), on the top of which are engraved two Swastikas, the arms crossing at right angles, all ends bent at right angles to the left. There are other figures (five and six on the same plate) of Swastikas from a Roman mosaic pavement in Algeria. Instead of being square, however, or at right angles, as might ordinarily be ex-

pected, the Swastika is here arranged. In some of the specimens, however, the Swastika is not only in the center, but is also in the corners of the square. The Swastika has been found in a number of places in Algeria.

ASIAN EXHIBITS.

Mr. J. L. Thompson, of Iverness, in the county of Kent, England, has found some of the most interesting and rare at Iverness. The Swastika, which is also found in the East, in whose possession they were at Iverness, he had found some marked with the Swastika sign (fig. 137). These specimens were claimed to be aboriginal, but whether the marks were etched or stamped in the metal is not stated.



Fig. 138.

THE SWASTIKA IN THE MUSEUM.

THE SWASTIKA IN THE MUSEUM.

THE SWASTIKA IN THE MUSEUM.

THE SWASTIKA IN THE MUSEUM.

THE SWASTIKA IN THE MUSEUM.

CLASSICAL OCCIDENT MEDITERRANEAN

GURE 1 AND THE INFLUENCE OF CYTOSOL PHOSPHOLIPASE A2 AND PLASMA

The Swedish film is based on a story by a famous author, the author of the "Arabian Nights" - "The Thousand and One Nights". The film is a very good example of the Swedish film industry. It is a very good example of the Swedish film industry. It is a very good example of the Swedish film industry.



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5. **Материалы:** 1. **С. 1.** 2. **С. 2.** 3. **С. 3.** 4. **С. 4.** 5. **С. 5.** 6. **С. 6.** 7. **С. 7.** 8. **С. 8.** 9. **С. 9.** 10. **С. 10.** 11. **С. 11.** 12. **С. 12.** 13. **С. 13.** 14. **С. 14.** 15. **С. 15.** 16. **С. 16.** 17. **С. 17.** 18. **С. 18.** 19. **С. 19.** 20. **С. 20.** 21. **С. 21.** 22. **С. 22.** 23. **С. 23.** 24. **С. 24.** 25. **С. 25.** 26. **С. 26.** 27. **С. 27.** 28. **С. 28.** 29. **С. 29.** 30. **С. 30.** 31. **С. 31.** 32. **С. 32.** 33. **С. 33.** 34. **С. 34.** 35. **С. 35.** 36. **С. 36.** 37. **С. 37.** 38. **С. 38.** 39. **С. 39.** 40. **С. 40.** 41. **С. 41.** 42. **С. 42.** 43. **С. 43.** 44. **С. 44.** 45. **С. 45.** 46. **С. 46.** 47. **С. 47.** 48. **С. 48.** 49. **С. 49.** 50. **С. 50.** 51. **С. 51.** 52. **С. 52.** 53. **С. 53.** 54. **С. 54.** 55. **С. 55.** 56. **С. 56.** 57. **С. 57.** 58. **С. 58.** 59. **С. 59.** 60. **С. 60.** 61. **С. 61.** 62. **С. 62.** 63. **С. 63.** 64. **С. 64.** 65. **С. 65.** 66. **С. 66.** 67. **С. 67.** 68. **С. 68.** 69. **С. 69.** 70. **С. 70.** 71. **С. 71.** 72. **С. 72.** 73. **С. 73.** 74. **С. 74.** 75. **С. 75.** 76. **С. 76.** 77. **С. 77.** 78. **С. 78.** 79. **С. 79.** 80. **С. 80.** 81. **С. 81.** 82. **С. 82.** 83. **С. 83.** 84. **С. 84.** 85. **С. 85.** 86. **С. 86.** 87. **С. 87.** 88. **С. 88.** 89. **С. 89.** 90. **С. 90.** 91. **С. 91.** 92. **С. 92.** 93. **С. 93.** 94. **С. 94.** 95. **С. 95.** 96. **С. 96.** 97. **С. 97.** 98. **С. 98.** 99. **С. 99.** 100. **С. 100.** 101. **С. 101.** 102. **С. 102.** 103. **С. 103.** 104. **С. 104.** 105. **С. 105.** 106. **С. 106.** 107. **С. 107.** 108. **С. 108.** 109. **С. 109.** 110. **С. 110.** 111. **С. 111.** 112. **С. 112.** 113. **С. 113.** 114. **С. 114.** 115. **С. 115.** 116. **С. 116.** 117. **С. 117.** 118. **С. 118.** 119. **С. 119.** 120. **С. 120.** 121. **С. 121.** 122. **С. 122.** 123. **С. 123.** 124. **С. 124.** 125. **С. 125.** 126. **С. 126.** 127. **С. 127.** 128. **С. 128.** 129. **С. 129.** 130. **С. 130.** 131. **С. 131.** 132. **С. 132.** 133. **С. 133.** 134. **С. 134.** 135. **С. 135.** 136. **С. 136.** 137. **С. 137.** 138. **С. 138.** 139. **С. 139.** 140. **С. 140.** 141. **С. 141.** 142. **С. 142.** 143. **С. 143.** 144. **С. 144.** 145. **С. 145.** 146. **С. 146.** 147. **С. 147.** 148. **С. 148.** 149. **С. 149.** 150. **С. 150.** 151. **С. 151.** 152. **С. 152.** 153. **С. 153.** 154. **С. 154.** 155. **С. 155.** 156. **С. 156.** 157. **С. 157.** 158. **С. 158.** 159. **С. 159.** 160. **С. 160.** 161. **С. 161.** 162. **С. 162.** 163. **С. 163.** 164. **С. 164.** 165. **С. 165.** 166. **С. 166.** 167. **С. 167.** 168. **С. 168.** 169. **С. 169.** 170. **С. 170.** 171. **С. 171.** 172. **С. 172.** 173. **С. 173.** 174. **С. 174.** 175. **С. 175.** 176. **С. 176.** 177. **С. 177.** 178. **С. 178.** 179. **С. 179.** 180. **С. 180.** 181. **С. 181.** 182. **С. 182.** 183. **С. 183.** 184. **С. 184.** 185. **С. 185.** 186. **С. 186.** 187. **С. 187.** 188. **С. 188.** 189. **С. 189.** 190. **С. 190.** 191. **С. 191.** 192. **С. 192.** 193. **С. 193.** 194. **С. 194.** 195. **С. 195.** 196. **С. 196.** 197. **С. 197.** 198. **С. 198.** 199. **С. 199.** 200. **С. 200.** 201. **С. 201.** 202. **С. 202.** 203. **С. 203.** 204. **С. 204.** 205. **С. 205.** 206. **С. 206.** 207. **С. 207.** 208. **С. 208.** 209. **С. 209.** 210. **С. 210.** 211. **С. 211.** 212. **С. 212.** 213. **С. 213.** 214. **С. 214.** 215. **С. 215.** 216. **С. 216.** 217. **С. 217.** 218. **С. 218.** 219. **С. 219.** 220. **С. 220.** 221. **С. 221.** 222. **С. 222.** 223. **С. 223.** 224. **С. 224.** 225. **С. 225.** 226. **С. 226.** 227. **С. 227.** 228. **С. 228.** 229. **С. 229.** 230. **С. 230.** 231. **С. 231.** 232. **С. 232.** 233. **С. 233.** 234. **С. 234.** 235. **С. 235.** 236. **С. 236.** 237. **С. 237.** 238. **С. 238.** 239. **С. 239.** 240. **С. 240.** 241. **С. 241.** 242. **С. 242.** 243. **С. 243.** 244. **С. 244.** 245. **С. 245.** 246. **С. 246.** 247. **С. 247.** 248. **С. 248.** 249. **С. 249.** 250. **С. 250.** 251. **С. 251.** 252. **С. 252.** 253. **С. 25**

«**ՀԱՅԱՍՏԱՆԻ ԿՈՄՄՈՆԻՍՏԱԿԱՆ ԴՆՆԻՔԻ**»-ի
 ԸՆԴՀԱՆ ԴՊՐԱՅԻՆՈՒԹՅՈՒՆԻ ՄԵՐ ԵՊԻՍԿՈՍՔԸ ԽԵՄԱՐՔԻ
 ԿԵՆՏՐՈՆ



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ИЗДАТЕЛЬСТВО «НАУКА» МОСКВА

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λ	$\text{Re}(\lambda)$	$\text{Im}(\lambda)$	$\text{Re}(\lambda)$	$\text{Im}(\lambda)$
1	1.0000	0.0000	1.0000	0.0000
2	0.9999	0.0000	0.9999	0.0000
3	0.9998	0.0000	0.9998	0.0000
4	0.9997	0.0000	0.9997	0.0000
5	0.9996	0.0000	0.9996	0.0000
6	0.9995	0.0000	0.9995	0.0000
7	0.9994	0.0000	0.9994	0.0000
8	0.9993	0.0000	0.9993	0.0000
9	0.9992	0.0000	0.9992	0.0000
10	0.9991	0.0000	0.9991	0.0000
11	0.9990	0.0000	0.9990	0.0000
12	0.9989	0.0000	0.9989	0.0000
13	0.9988	0.0000	0.9988	0.0000
14	0.9987	0.0000	0.9987	0.0000
15	0.9986	0.0000	0.9986	0.0000
16	0.9985	0.0000	0.9985	0.0000
17	0.9984	0.0000	0.9984	0.0000
18	0.9983	0.0000	0.9983	0.0000
19	0.9982	0.0000	0.9982	0.0000
20	0.9981	0.0000	0.9981	0.0000
21	0.9980	0.0000	0.9980	0.0000
22	0.9979	0.0000	0.9979	0.0000
23	0.9978	0.0000	0.9978	0.0000
24	0.9977	0.0000	0.9977	0.0000
25	0.9976	0.0000	0.9976	0.0000
26	0.9975	0.0000	0.9975	0.0000
27	0.9974	0.0000	0.9974	0.0000
28	0.9973	0.0000	0.9973	0.0000
29	0.9972	0.0000	0.9972	0.0000
30	0.9971	0.0000	0.9971	0.0000
31	0.9970	0.0000	0.9970	0.0000
32	0.9969	0.0000	0.9969	0.0000
33	0.9968	0.0000	0.9968	0.0000
34	0.9967	0.0000	0.9967	0.0000
35	0.9966	0.0000	0.9966	0.0000
36	0.9965	0.0000	0.9965	0.0000
37	0.9964	0.0000	0.9964	0.0000
38	0.9963	0.0000	0.9963	0.0000
39	0.9962	0.0000	0.9962	0.0000
40	0.9961	0.0000	0.9961	0.0000
41	0.9960	0.0000	0.9960	0.0000
42	0.9959	0.0000	0.9959	0.0000
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44	0.9957	0.0000	0.9957	0.0000
45	0.9956	0.0000	0.9956	0.0000
46	0.9955	0.0000	0.9955	0.0000
47	0.9954	0.0000	0.9954	0.0000
48	0.9953	0.0000	0.9953	0.0000
49	0.9952	0.0000	0.9952	0.0000
50	0.9951	0.0000	0.9951	0.0000
51	0.9950	0.0000	0.9950	0.0000
52	0.9949	0.0000	0.9949	0.0000
53	0.9948	0.0000	0.9948	0.0000
54	0.9947	0.0000	0.9947	0.0000
55	0.9946	0.0000	0.9946	0.0000
56	0.9945	0.0000	0.9945	0.0000
57	0.9944	0.0000	0.9944	0.0000
58	0.9943	0.0000	0.9943	0.0000
59	0.9942	0.0000	0.9942	0.0000
60	0.9941	0.0000	0.9941	0.0000
61	0.9940	0.0000	0.9940	0.0000
62	0.9939	0.0000	0.9939	0.0000
63	0.9938	0.0000	0.9938	0.0000
64	0.9937	0.0000	0	

largest proper subgroups of the older ones being going to the next period. I have never known any other case where a N_{2n+1} has a F_{2n} of size n as large as N_{2n+1} does. (The $n=1$ case is N_3 of size 2.) But even if $n=1$, the mere presence of a subgroup of size n is given as F in Goursat.

The Greek and Egyptian names are not far apart in the Semitic languages. The Greek name is *kylix*, and the Egyptian name is *kylix*. There is no doubt that the *kylix* can be so easily demonstrated as the assertion that the Swastika is originally a fragment of the Egyptian meander, provided Greek vase motifs are called to evidence.

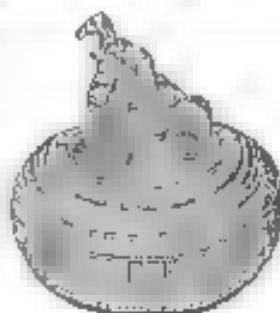
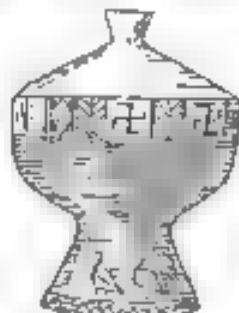


Fig. 4



F 45

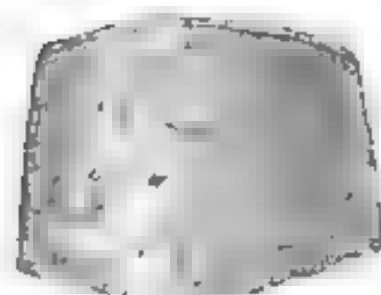
工部局	六八四	二	三	四	五	六	七	八	九	十	十一	十二	十三	十四	十五	十六	十七	十八	十九	二十	二十一	二十二	二十三	二十四	二十五	二十六	二十七	二十八	二十九	三十	三十一	三十二	三十三	三十四	三十五	三十六	三十七	三十八	三十九	四十	四十一	四十二	四十三	四十四	四十五	四十六	四十七	四十八	四十九	五十	五十一	五十二	五十三	五十四	五十五	五十六	五十七	五十八	五十九	六十	六十一	六十二	六十三	六十四	六十五	六十六	六十七	六十八	六十九	七十	七十一	七十二	七十三	七十四	七十五	七十六	七十七	七十八	七十九	八十	八十一	八十二	八十三	八十四	八十五	八十六	八十七	八十八	八十九	九十	九十一	九十二	九十三	九十四	九十五	九十六	九十七	九十八	九十九	一百
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$$h = 11 \times 10^{-3}$$

15 JULY 2004

where μ is the mean for the variable of interest, σ is the standard deviation, and n is the number of observations. The test statistic is then compared to the critical value to determine the outcome of the hypothesis test.



proved. It is difficult, if not impossible, to procure direct evidence on the proposition. Comparisons may be made between the two signs, but this is secondary or indirect evidence, and depends largely on argument. No man is so poor an expedientist that he may not argue. Goldsmith's schoolmaster "even two" vanquished, he could argue still." The Greek fret, once established, might easily be doubled or crossed in some of its members, thus forming a figure similar to the Swastika fig. 139, which would serve as an ornament, but is

crossed lines in the Greek fret seem to have been altogether fortuitous. They gave it an symbolic character. It was simply a variation of the fret, and at best was rarely used, and like it, was employed only for or-



Fig. 4

any signification—not a sign of benediction,



of the Greek fret, so far as we can see its use, is its adaptability to form an extended ornamental band, consisting of double, least, and sometimes crossed or interlaced lines, always continuous and never ending, and running between two parallel border lines. Two interlocking lines can be



must be separated from its fellows. The Swastika has four arms, each made by a single line which comes to an end in each quarter. This is more imperative with the meander Swastika than with the normal. If the lines be doubled on

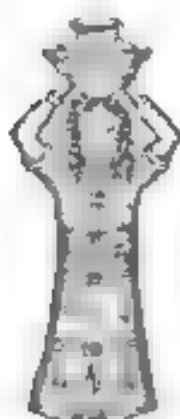


Fig. 167. Vase with Swastika.

another Swastika adjoining, in the attempt to

make a band, it will be found impossible.

The first step in the making of the band of Swastikas, to be connected with each other, or to make them travel in any given direction with continuous lines, will be found impossible.

is done by his figure on page 96, in connection with the 10 fig. 1 and 2 and 3 and 4.



Fig. 168. Bowl with Swastika.

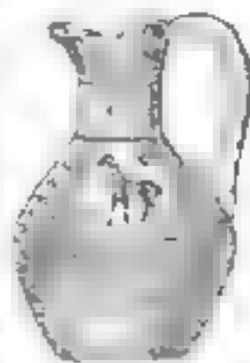
and 304. These figures are given in this paper and are, respectively Nos. 2 and 3. Exception is taken to the pretended



Fig. 169.

URTIAN VASE WITH SWASTIKA.

Urter, p. 104, fig. 16.



these figures (1) There is nothing to show any actual relationship between them. There is no evidence that they agreed either in locality or time, or that

the minds of their respective artists. (2) Single specimens are no evidence of custom. This is a principle of the common law which has

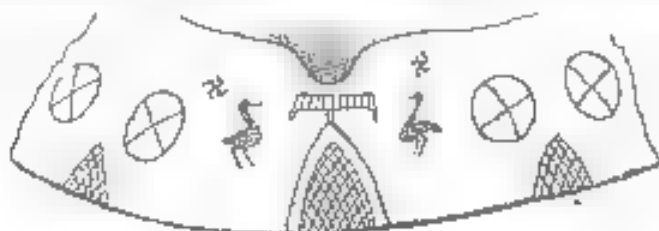


Fig. 51

DATA ON PAPER WITH MATHEMATICS 第1版 附光盘 678页

[illegible]

As a good foundation and was as simple as 1-2-3 days as a
now. The transition from the spiral to the straight feet and from the

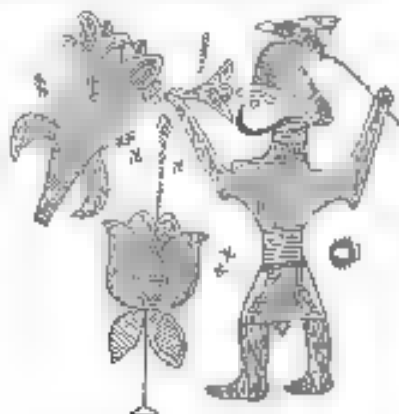


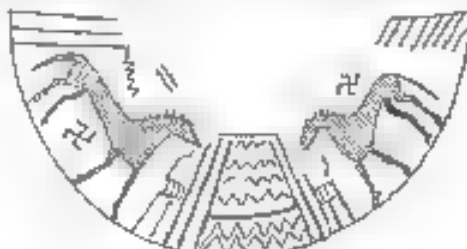
Fig. 102

TABLE 5. Y PLANT VARIETY

Samir, J., 2000. *Journal of the American Statistical Association*, 95, 100-105.

Տես լսողական առթիվը և ձայնագրությունը: Բնական ձայնագրությունը, որի վրա ձայնագրողը հարկադրաբար չի կարողացել համարձակվել իր ձայնագրության հետ, օգտագործելու համար:

Greek feet as the Spondee can be shown only by the existence of the custom or habit of the artist to make them both in the same or adjacent



Pl. 1521

UNIT II. LEADERSHIP. DISCUSS THE FOLLOWING WITH STUDENTS AND REQUIRE THEM TO ANSWER

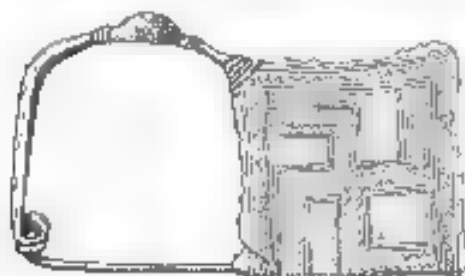
17.

உருபு முறை

*A. Jones: Treasurer of the League, 2011. E-mail: ajones@leaguelaw.org

ing epochs of time, and this is not proved by showing a single species in 3 or a greater number of species were produced, because of

evidence would not be compatible for the wanderer to have been traveling as has just been said, he found impossible to transition from the meander Swastika to the Swastika does not extend itself at all but if spread out it spreads in each of the four directions (figs. 21 and 25). The transition will be found much easier from the Greek meander first to the normal Swastika and then that to the meander Swastika than to proceed in the opposite direction. Anyone who doubts this has



37c 15a

המחברת מודה לפרופ' ד"ר יעקב גולדמן, ראש המחלקה למדעי החיים, על סיועו במימון חלק מההוצאות.

1. **Thème** : L'impact de la technologie sur la société.
 2. **Question** : Comment la technologie a-t-elle transformé nos modes de vie et de communication ?
 3. **Plan** :
 - Introduction : L'essor de la technologie dans le monde moderne.
 - Développement :
 - Les avantages : L'accès à l'information, la facilité de communication.
 - Les défis : La dépendance, la perte de contact humain.
 - Conclusion : L'équilibre entre technologie et vie humaine.



Fig. 165

HABER said, given [p] with
 so [p] [t] [e] [a] [n] [d] [e] [f] [o] [r]
 [b] [e] [t] [h] [i] [s] [t] [h] [e] [r] [e] [f] [e] [r] [e] [n] [c] [e] [s]
 [t] [h] [e] [r] [e] [f] [e] [r] [e] [n] [c] [e] [s]

out to try to make the Swastika in a continuous or extended band or line (Fig. 26), similar to the Greek foot.

Figs. 33 and 34, from Naukratis, afford palpable evidence of the different origin of the Swastika and the Greek fret. Even today are not vague, though found in Egypt, these symbols bear no resemblance to the fret and the Swastika used contemporaneously and



Fig. 15b

THESE ARE THE WORDS OF THE LORD
BY A PROPHET
AND HE SAID TO THEM
IN THE YEAR THAT THEY WERE
IN THE LAND OF ASSYRIA

Fig. 4

[illegible]

be it of him complete and perfect. I have and seen parents of the other, they would have exchanged to some generation and I was a not have appeared a multiplicity of the said species. Another illustration of multiplicity is in fig 104 which represents in *Ergaster* case* ornamented with long and hairs in the form of

Sent to: TBS.

[illegible]

Synsphyris, but associated with the character of the Greek frog, so we may claim to see of contemporaneous use, and therefore not as Professor



FIG. 48

FIG. 48. BULB WITH LIZARD AND SWAN-LIKE AND FIGURES OF BIRD.

METROPOLITAN MUSEUM OF ART, NEW YORK CITY.

Excavated, discovered at the base of the, fig. 12.

Greek vase, believes, an evolution of one from the other. The specimen is in the Museum at Este, Italy.



FIG. 50

FIG. 50. VASE WITH TWO SWAN-LIKE

FIG. 50. VASE WITH TWO SWAN-LIKE, METROPOLITAN MUSEUM OF ART, NEW YORK CITY.

Excavated, discovered at the base of the, fig. 12.

The Greek frog has been in common use in all ages and all countries adopting the Greek civilization. Equally in all ages and countries has

appeared the swastika in a wide range of places, and it is found either as an ornament or as a symbol.

He says we should seek it where it appears in "the largest dimension" and in "the most prominent way." In verification of this declaration he says that in the

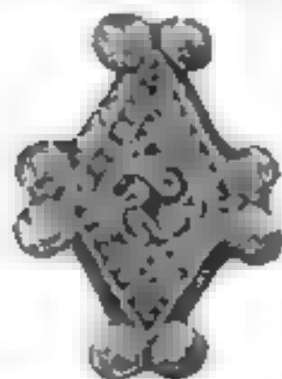


Fig. 101

he says we should seek it where it appears in "the largest dimension" and in "the most prominent way." In verification of this declaration he says that in the

systematically appears in panels closely assigned to it. But he gives only

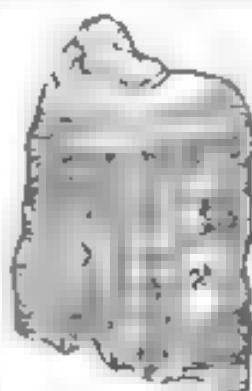


Fig. 102
SWASTIKA, FROM THE

from Waring's "Celtic Art," and from

there are the great majority of them do not thus appear. Therefore, Professor Goodyear's theory is not sustained, for no one will pretend that four specimens found in panels will form a rule for the great number which do not thus appear. This argument of Professor Goodyear is destructive

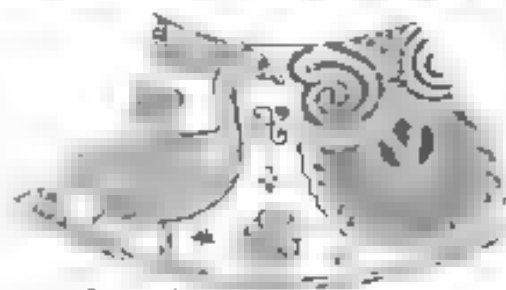


Fig. 103

From

"Grammar of the Lotus," pp. 845, 868

and never in panels. Although the Swastika and the Greek fret have a certain similarity of appearance in that they consist of straight lines bent at right angles and laid continued many times, yet the similarity

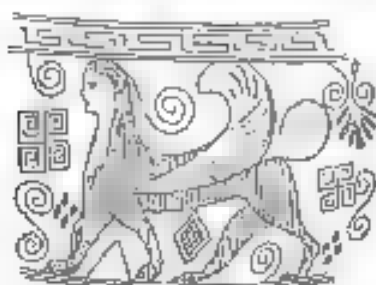


Fig. 107

DETAIL OF GREEK VASE

Swastika on a spiral scroll and the swastika
 Swastika on griffin

Fig. 108

Detail of a Greek vase showing a swastika symbol.



Fig. 108

DETAIL OF GREEK VASE

Swastika on a spiral scroll and the swastika
 Swastika on griffin

Fig. 109

Detail of a Greek vase showing a swastika symbol.

is more apparent, that even for an analysis of the motifs of both show them to have been essentially different in their use, and so in their foundation and origin.



Fig. 109

DETAIL OF GREEK VASE

Swastika on a spiral scroll and the swastika

Swastika on a spiral scroll and the swastika

Swastika on a spiral scroll and the swastika

pointed, and has divided them according to form and destination. The first group (figs. 40-143, 146, 147, 148, and 149) shows the normal Swastika of the old world, as seen at right angles and to the right, as the universal designation of good luck has been well known & common from different parts of the world in the hands of the Christian Arabs.



Fig. 143

Fig. 143. A vase or jar with a Swastika and two birds on the body.

Fig. 144. A vase or jar with a Swastika and two birds on the body. The vase is decorated with a central panel featuring a Swastika symbol, flanked by two smaller panels, each containing a stylized bird or winged figure. The vase sits on a small, flared base.

peoples, and these, with such specimens as have been found in Smyrna, have for this purpose all been treated as Greek.

Next to the four arms cross, the most common symbol found in the East is the normal Swastika with the arms bent to the right, as seen at right angles, as in the left.

The vases on which they have been found are not described as to color or form. It would be difficult to do so correctly, besides, these descriptions are not important in our study of the Swastika. Fig. 155 represents a vase or pitcher (choecus, Greek—*choikos*, wine, and *choos*, to pour) with painted Swastika, ends turned to the left. It is in the Museum of St. Germain, and is fig. 155.

M. De Mortier in "Musée Préhistorique" Fig. 156 represents a Campanian vase from Cornelia, in the New York Museum, as described by Lepsius and by Lelewel and Chapuis. Fig. 157 is a fragment of ancient Greek pottery found in Santoni. Ancient Phoenician pottery is also found in the same place.



Fig. 155

Fig. 155. A vase or pitcher with a Swastika and two birds on the body.

Fig. 156. A vase or pitcher with a Swastika and two birds on the body.

Fig. 157. A fragment of ancient Greek pottery found in Santoni.

Fig. 158. A fragment of ancient Greek pottery found in Santoni.

Fig. 159. A fragment of ancient Greek pottery found in Santoni.

Fig. 160. A fragment of ancient Greek pottery found in Santoni.

Fig. 161. A fragment of ancient Greek pottery found in Santoni.

Fig. 162. A fragment of ancient Greek pottery found in Santoni.

Fig. 163. A fragment of ancient Greek pottery found in Santoni.

Fig. 164. A fragment of ancient Greek pottery found in Santoni.

Fig. 165. A fragment of ancient Greek pottery found in Santoni.

Fig. 166. A fragment of ancient Greek pottery found in Santoni.

Fig. 167. A fragment of ancient Greek pottery found in Santoni.

Fig. 168. A fragment of ancient Greek pottery found in Santoni.

Fig. 169. A fragment of ancient Greek pottery found in Santoni.

Fig. 170. A fragment of ancient Greek pottery found in Santoni.

Fig. 171. A fragment of ancient Greek pottery found in Santoni.

Fig. 172. A fragment of ancient Greek pottery found in Santoni.

Fig. 173. A fragment of ancient Greek pottery found in Santoni.

Fig. 174. A fragment of ancient Greek pottery found in Santoni.

* "History of Art in Phœnicia and Cyprus," II, p. 302, fig. 308.

These are the same as the ones that are found in the Tholos at Mycenae, and in the Tholos at Orchomenos, a house of wood founded about 1500 B.C. and which was used to house the king and his family.

These are the same as the ones that are found in the Tholos at Mycenae, and in the Tholos at Orchomenos, a house of wood founded about 1500 B.C. and which was used to house the king and his family.

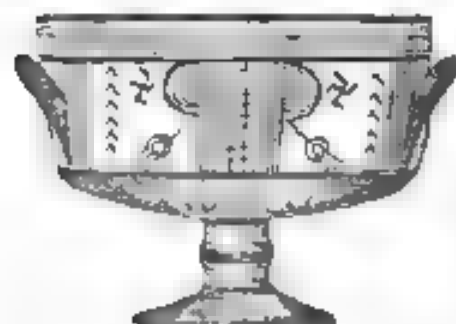


Fig. 161. A wooden bucket or ewer, found in the Tholos at Mycenae, and in the Tholos at Orchomenos, a house of wood founded about 1500 B.C. and which was used to house the king and his family.

The bucket is made of wood and is decorated with a central circular motif containing a swastika-like symbol, surrounded by other geometric patterns. The bucket is shown from a slightly elevated perspective.

Dr. Schliemann reports that the Swastika in its spiral form is represented innumerable times in the sculptured ceiling of the Tholos in the treasury at Orchomenos. (See figs. 21 and 23.)

The bucket is made of wood and is decorated with a central circular motif containing a swastika-like symbol, surrounded by other geometric patterns. The bucket is shown from a slightly elevated perspective.

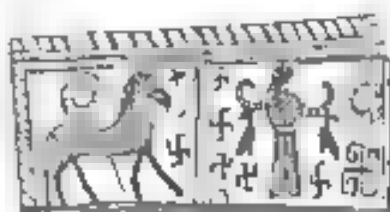


Fig. 162.

The object is a rectangular tablet or piece of pottery, featuring a central figure, possibly a deity or a person, standing and holding a staff or a scepter. The figure is surrounded by other symbols, including what looks like a swastika-like symbol on the left and right sides. The object is shown from a slightly elevated perspective.

in terra color with figures in maroon. It belonged to the British Museum. It bears on the front side five Swastikas, all of different styles, three turn to the right and two to the left. The man arms crossed at right angles, in the place of the arms bent at right angles were the carved figures. Three have the arms bent at right angles four times, making a swastika, and two make only one swastika. Two swastikas have turned on, only reference to each other, and any other object which are



Fig. 17.

SPR. AND N. T. MUSEUM, BOSTON, MASS.

View from the left. The figure is seated, and the swastika is on the right.

Fig. 18.

across the jar, but the chance of seeing it was small. A specimen of Swastika interesting to prehistoric archaeologists is that on a vase from the British Museum, No. 10, which has a representation of a seated figure, and a swastika, and is a specimen between the Swastika.

Dr. Max Müller, in his paper on the subject, "The Swastika in the Indian Religion," published in the *Journal of the Asiatic Society*, 1881, p. 110, has shown that the Swastika is a symbol of the "Lotos," p. 87, fig. 4.

Historical pour l'Inde, par le Dr. Max Müller, et l'Asiatic Society, 1881, p. 110.

of Antiquary for 1935, December 6, 1935, reported the finding of the symbol (crossed) I was not first to suggest the symbol was a variation on the Croix pattern in the Swastika, while the Croix corresponds to the cross with dots, the Croix antiquaire of Zimigrodski.) In this paper the author describes his finding the Swastika during his excavations into prehistoric Cyprus. On the first page of his paper the following statement appears:

The *Swastika* comes from India as an ornament in form of a cross

6. **Reinholdt** ¹⁰Chromatone FOM 1.2

የጥቅም ላይ የዋለው የጥናት ዘመን በጥንቃቄ መመረቅ ይገባል፡፡



Fig. 173

METAL OF SOURCE TANK

1990 年 1 月 1 日 至 1990 年 12 月 31 日止

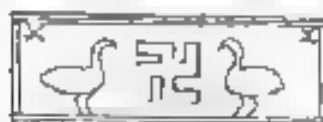


44

● 2010 年 12 月 11 日 星期五

4. Use top

[illegible][illegible]

[illegible]

figures displayed in each of the four quarters. The chief personage on the car he identifies as the god of Apollo-Resef, and the decoration of a shield represents the solar disk. He is at once the god of war and also the god of light, which identifies him with Helios. The other personage is Herakles. He is the mightiest of the sun-



218. 100
 T A: DOWNS STATION 417 TBA
 W A: 2 4 10 15
 Electric, Cypress
 2 4 10 15
 100, 100, 100

The authors are grateful to the referees for their valuable comments and suggestions. The authors are also grateful to the Department of Mathematics, University of Delhi, Delhi-110007, India, for providing the facilities for carrying out this research.

[illegible]

1997年12月

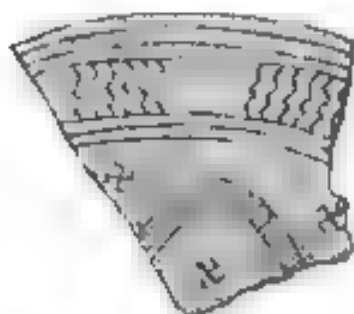
² Aphrodisias-Phenician Asutorrh. Actato=Naupho. I. 1.

four, and another no less than eight.

Alban Mount.¹ He says (note 1):

lower and earlier strata of peoples.

A fragment of Archimedes' work is preserved by Eutocius from the commentary of Theon on the *Elements* of Euclid, in which he

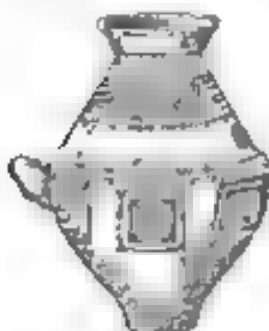


154. Rohdtsch reports it as an example of a very early period, believed by him to have been Phœnician. When we consider the rarity of Phœnician pottery in Italy compared with the great amount of Greek pottery found there, and that the Phœnicians are not known to have employed the Swastika, this combined with the difficulty of determining the place of origin of such a fragment, renders it more likely to have been Greek than Phœnician.

A second paper by the author [Lukatskiy, 2013] is devoted to the question of the possibility of the construction of a \mathbb{Z} -module with a countable basis. It is shown that the answer to this question is affirmative.

such meaning, and is no proof of his proposition.

Figs. 185 and 186 represent the one-handed cinerary urns peculiar to the Bronze Age in Italy. They are believed to have been contemporaneous with or immediately succeeding the



hat urns just shown. The ethenry urn shown in fig. 35 was found at Marino, near Albano, in the same locality and under the same condition as the hat urns.

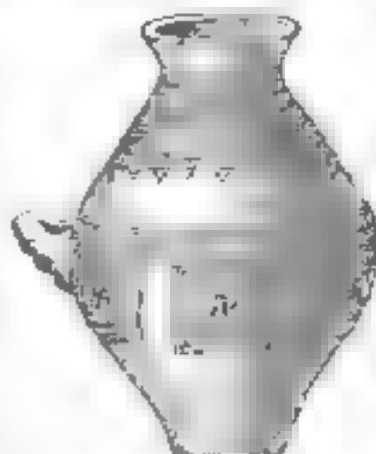


Fig. 183
New Marine, West African, Taper
Yodanis Museum

[illegible][illegible]

[illegible]

Год:

right Fig. 192 shows a fragment of pottery from the Felsina necropolis, Bologna, ornamented with a row of Swastikas stamped into the clay in a manner peculiar to the locality.



Fig. 18

existence of a continuous line



11

[illegible]

§ 75-263.4. Title 75, Chapter 263, § 4, is amended to read:

it has been found in Southern Italy and elsewhere, the earliest examples of which are of the 10th century B.C.

When the Greek colonies of the Crimea and the Black Sea made their way back to their native country, they brought with them the swastika. This symbol was used by the Greeks in the 5th century B.C.

It was used by the Romans in the 1st century A.D. for themselves. On the death of Atilius and the return of the Huns and other tribes to their native country, many assimilated with the population. They have remained in northern Italy under the title of Longobardi. In the 10th century A.D. they were known as the Lombards and in their style of architecture and ornamentation they were called Longobardi.

The swastika was used by the Romans in Roman and Christian times. It was used by the Romans in the 1st century A.D. and by the Christians in the 4th century A.D.

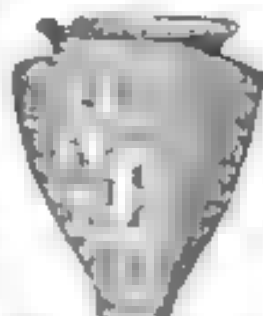
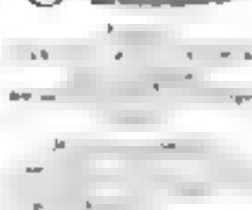


Fig. 1. A small, dark, irregularly shaped object, possibly a fragment of a swastika, with a rough, irregular shape.

It was used by the Romans in the 1st century A.D. and by the Christians in the 4th century A.D. It was used by the Romans in the 1st century A.D. and by the Christians in the 4th century A.D. It was used by the Romans in the 1st century A.D. and by the Christians in the 4th century A.D.

Christ and was the Lachrym of Constantine. All three of them are on the base of the Arch episcopal chair in the cathedral at Milan.

The swastika was used by the Romans in the 1st century A.D. and by the Christians in the 4th century A.D. It was used by the Romans in the 1st century A.D. and by the Christians in the 4th century A.D. It was used by the Romans in the 1st century A.D. and by the Christians in the 4th century A.D.

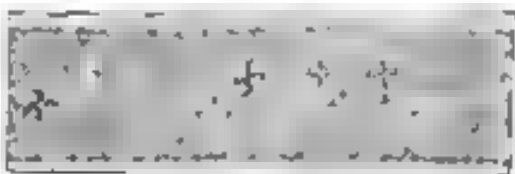


The swastika was used by the Romans in the 1st century A.D. and by the Christians in the 4th century A.D. It was used by the Romans in the 1st century A.D. and by the Christians in the 4th century A.D. It was used by the Romans in the 1st century A.D. and by the Christians in the 4th century A.D.

* *Like Dwellings*, pl. 121, figs. 3, 4.

† *Like Dwellings*, pl. 121, figs. 3, 4.

tunnings in Alsace. It is made after the style common to that period; the work is repoussé and the design is laid off by diagonal lines which divide the field into six angles, wherein the Swastika is represented in various forms. Some turned



The Mettler, "Bronze Schmuckstücke," fig. 193.

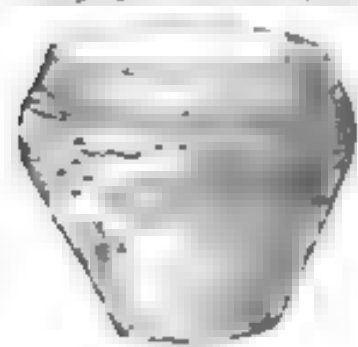
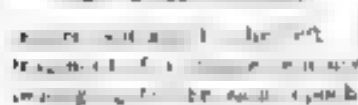
to the left. Other forms of the cross

also appear with dots in or about the corners, which Burrows associates with the myth of Agni and fire making, and which Zsigroedek calls the *Croix sans tige*. This specimen is in the collection Nees at Haguenau. Another einture was found at the same place and is displayed with it.

It bears representations of the cross in different forms, one of which might be a Swastika with dotted cross lines, with the arms



Museum of Metz.
The Mettler, "Bronze Schmuckstücke," fig. 194.



with a large swastika on the front and a smaller one on the back. After the same manner as the swastika on the front of the

Metzstetten, Württemberg, and is in the Museum of Stuttgart. It is not repoussé, but is cut in open work of intricate pattern in which the Swastika is the principal motif. A bronze fibula, fig. 199, is in the museum at Navesse, the body of which has the form of the normal Swastika. The arms are turned to the right and the lower one is broken off. The hinge for the pin was attached at one side or arm of the Swastika and the retaining clasp for the pin at the other. It is not repoussé, but is cut in open work of intricate pattern in which the Swastika is the principal motif.

very broken, its use a somewhat indeterminate, but it is believed by the majority of that museum and others to have been an arrowhead or spear-head. Its form belongs to Class A of stemmed implements, a large class, without socket or barb. It is a little more than an inch long, five eighths of an inch wide at the base, thin. On one side it bears two oblique or 1st. A narrow cross-sectioned rib runs on the other, a figure resembling the Swastika. It is not the normal Swastika, but a variation therefrom. It is a cross about three-eighths of an inch square. The four stem lines meet each other at right angles, the ends of each of these arms are joined by two raised lines, which gives it the appearance of two turns of the spiral, but the junction is not very high, so the ends of the cross extend in every case slightly further than the bent end. The variation from the normal Swastika is a result of the variation produced by the second side. This object was found, found by M. Dupont, at passage 2, the prehistoric cavern of Sanku near Hamar. Most, or many of these caverns belong to Paleolithic times, and one, the Crotte de Spy has furnished the most celebrated specimens of the skeletons of a skeleton. In the cavern of Sanku was determined, from the objects found therein, to belong to the Bronze Age.

Swastika. The evidences of prehistoric culture have great resemblance throughout Denmark, Sweden, and Norway, so it is believed that during prehistoric ages their peoples had a common culture, and the countries have been named together as Scandinavia.

A bronze arrow, discovered by Mr. George Stephens, as having been found at Sanko, Norway, with runes and a Swastika and with silver. This specimen, fig. 203, was the subject of discussion before the Inter-

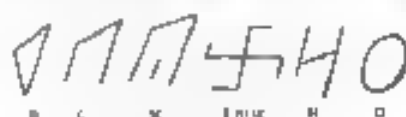


Fig. 203.

A bronze arrowhead with a Swastika.

In the left with silver - on a bronze arrowhead.

Bronze Arrow.

national Congress of Anthropology and Prehistoric Archaeology, at Liverpool, 1886. Its runes were transcribed by Stephens, and using and from right to left "H T H K H T H" or "H T H K H T H". But on the same page he gives another sign for "H T H K H T H" as "O H T H K H T H". In his conclusion before the congress it seems to have been agreed that the sign "H T H K H T H" for "H T H K H T H" or some beneficent charm or benediction. A specimen has been for

years last year. In the museum at Ternola, near Venice, I saw a Swastika sign (fig. 204), from the time of Emperor Sept. Assurnid, whether or not a part of it, was a swastika (fig. 204a), which has always been attributed to the Etruscan. Mr. I. Undset, an archaeologist in the museum of Christiania, made an excavation at Torshov in Italy in 1888, and on seeing this spearhead



Fig. 204a.

SWASTIKA WITH DOTS.
Ternola, Italy.



Fig. 205.

SWASTIKA WITH DOTS.
Ternola, Italy.

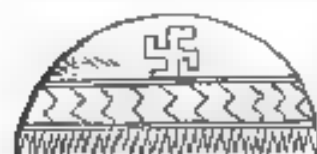


Fig. 206.

SWASTIKA WITH DOTS.
Scandinavia.

recognised the description of time and belonging to Scandinavia. The arms of the Swastika turned to the left and the ends were finished with three dots of the same style as those described in the *Orkenney Islands* (fig. 12). Figs. 205 and 206 represent articles of dress or toilet, and bear the Swastika. The first shows a roiling comb, the Swastika on which turns to the right. It was probably of bone or horn, as are those of modern times. Fig. 206 shows a brooch, the interior of which or of wood, is a combination of Swastika more or less interlaced. It is of bronze and was used as a cross ornament. Fig. 207 shows a large brooch, the outer rim and bar of which are almost covered with the tetraskelion style of Swastika. There are six of the four-armed Swastikas, four of which turn to the left and two to the right. Another is a triskeleon, the arms of which turn to the right.

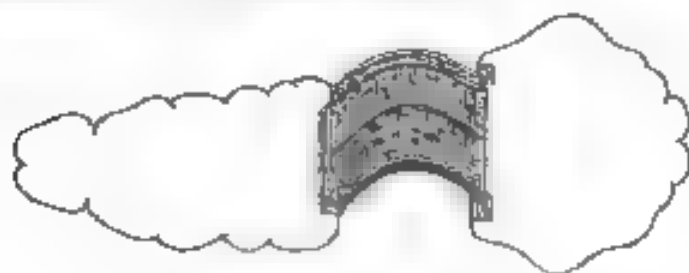


Fig. 207.

BARREL BROOCH OF BRONZE WITH COMBINATION OF SWASTIKAS.
Scandinavia.

In Scandinavia more than in other countries the Swastika took the form of a rectangle or lozenge with arms projecting from each corner and bending in a spiral form, sometimes to the right, sometimes to the left.

Dr. Chas. H. "Viking Age," p. 35.

H. M. S. 90, pt. 3—55

These are found mostly on fibula or brachia and on pectoral and abdominal. In fig. 195 a sword is shown with a buckle to receive the thing. It contains



FIG. 195. Sword with swastika pommel.

Swastika on right and left
of hilt and pommel.

with a swastika on the hilt. In some cases the swastika is used as a decorative element, consisting largely of ages curves, which, were represented as a swastika. The swastika is those mentioned. Figs. 200 and 210 show sword hilt with swastika on the hilt. Fig. 210 shows a swastika on a grave at the end of the sword. The swastika and figure by Waring.

The sword with the swastika bears no real evidence of Scandinavian workmanship. There are other swastikas of the same general form and style in distant localities, and this specimen serves to emphasize the extent of possible communication between these people.

The sword with the swastika is a piece of bronze, silver, and an ornamented with swastika. The swastika is a normal form seen at right angles to the left and the other is a normal form seen at right angles to the right.



FIG. 200.

Swastika on right and left of hilt.

Two swastikas on the hilt.



FIG. 210.

Swastika on right and left of hilt.

Swastika on right and left of hilt.



FIG. 211.

Swastika on right and left of hilt.

Swastika on right and left of hilt.



FIG. 212.

Swastika on right and left of hilt.

Swastika on right and left of hilt.

of two, pattern.

It is not seen that

these fanciful ad-

ditions serve any

purpose other than

decorative. They

do not appear to

have changed the

symbolic meaning

of the swastika.

A sword with a swastika on the hilt. The swastika is a normal form seen at right angles to the left and the other is a normal form seen at right angles to the right.

Swastika on right and left of hilt. Swastika on right and left of hilt. Swastika on right and left of hilt.

Swastika on right and left of hilt.

in Sweden. I have written a paper on the Swastika for the *Journal of the Royal Asiatic Society* (See p. 876 for continuation of Swastika on Scandinavian or Danish gold bracteates.)

M. Paul du Chastel, in his "Viking Age" mentions many specimens of Scandinavian and Norse antiquities bearing Swastika marks of divers styles. Bronze vessels (vol. 1, p. 100, note 1), iron spear point with rings and Swastika inscribed with silver, discovered in a bog near the west coast of Sweden (fig. 388, number of the same, *Volymen*, *Travaux*, fig. 347); wooden bowl composed of burnt bones, pointed iron knife, bronze brooch and bronze glass beads, 1200 B.C. (fig. 310; iron spearhead, Vimose bog find. (p. 207), border of finely woven silk cloth with gold and silver threads (see p. 18, fig. 14).

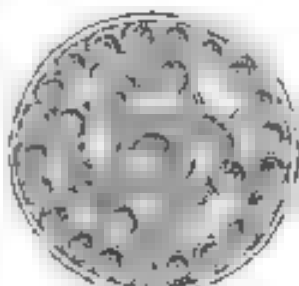


Fig. 388. A gold bracteate with a central Swastika mark. (See p. 18, fig. 14.)

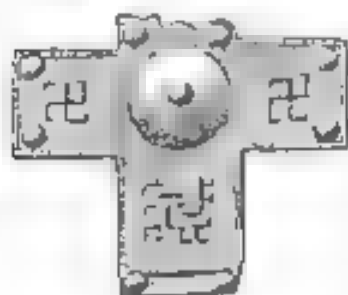


Fig. 389. A cross-shaped stone inscription with Swastika marks. (See p. 18, fig. 14.)

In Scotland and Ireland.—Specimens of the Swastika have been found on the Ogam stones in Scotland and Ireland (p. 787). In the churchyard of Aglish, county Kerry, Ireland, stand two stones bearing Ogam inscriptions. At the top of one is an ancient Celtic cross enclosed in a circle similar to fig. 7; immediately under it are two Swastika marks of four arms crossing at right angles, each arm bent to the right also at right angles. The two quarters of the stone have been found to contain Ogam characters. A translation may be given, but seems to be unimportant and without apparent bearing on the Celtic inscription. They are somewhat similar to the first and last of the Ogam alphabet, but they are not the same. The marks are Apollon and Apollon.



Fig. 390. A long, narrow stone inscription with a central Swastika mark and Ogam characters. (See p. 18, fig. 14.)

In Scotland the Newton stone in the grounds of the Newton House bears an Ogam inscription. The first four characters of the inscription are Apollon and Apollon.

Dr. R. Munro² reports from the Crannog of Leshacroghera country, Antrim, Ireland, two pieces or disks of thin bronze, repoussé

by the same process, the spiral of which is turned to the right, and the four arms of the spiral turned to the left. The similarity of this figure with those shown on the shields of the Pima Indians of New Mexico and Arizona, pgs. 257 and 258, is to be noted.

Dr. R. Munro² reports from the Crannog of Leshacroghera country, Antrim, Ireland, two pieces or disks of thin bronze, repoussé by the same process, the spiral of which is turned to the right, and the four arms of the spiral turned to the left. The similarity of this figure with those shown on the shields of the Pima Indians of New Mexico and Arizona, pgs. 257 and 258, is to be noted.

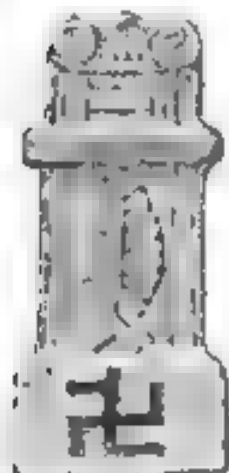


FIG. 100

STONE MONUMENT, CRANNOG OF LESHACROGHERA, IRELAND

From the collection of the British Museum

(1900)

The figure represents a stone monument from the Crannog of Leshacroghera, Antrim, Ireland, the figure of which is turned to the right, and the four arms of the spiral turned to the left. The similarity of this figure with those shown on the shields of the Pima Indians of New Mexico and Arizona, pgs. 257 and 258, is to be noted.

²"La Migration des Symboles," p. 49

³Zmigrodski, "Zur Beschreibung der Symbole," p. 14

⁴"Lake Dwellings of Europe," p. 38a, pl. 124, figs. 30-32



FIG. 101

CARVED BRONZE DISK OF CRANNOG OF LESHACROGHERA, IRELAND

From the collection of the British Museum

(1900)

shows a triskelion of symmetric spirals turned to the right. In the Crannog of Leshacroghera, Antrim, Ireland, the head of which was enclosed in a ring. On one side of the head was engraved a Greek cross, on the other was a normal Swastika. The figure of which is turned to the right, and the four arms of the spiral turned to the left. The similarity of this figure with those shown on the shields of the Pima Indians of New Mexico and Arizona, pgs. 257 and 258, is to be noted.

FIG. 102 ROMAN MONUMENT

From the collection of the British Museum. The monument is a stone monument from the Crannog of Leshacroghera, Antrim, Ireland, the figure of which is turned to the right, and the four arms of the spiral turned to the left. The similarity of this figure with those shown on the shields of the Pima Indians of New Mexico and Arizona, pgs. 257 and 258, is to be noted.

[illegible]

— 784 —


[illegible]

97. *Adm. H. Chomsky del 42. Movimento Studentesco*, n. 2, 7.

THE HEART HAS A LANGUAGE OF ITS OWN

There has been much law and imagination
since [redacted] [redacted] [redacted] [redacted] [redacted]
[redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted]
The [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted]
[redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted]
This [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted]

and also of the Isle of Wight. "Comely April to Boreas' Agent," p. 61.
Minn. is but an evolu-
tion from or modification of the Swastika. In
the design of the old letter is hidden rather
deep than a hint of the new pattern of
a swastika-like figure and letters. The script
above it reads: "THE SWASTIKA"
of this theory as a fact
is only justified from its
long-continued repetition.



Tritelion, Lycia.—The
it came first appears on the
Asia Minor, about B. C. 480.
Take . . .
the first . . .
but this . . .
three . . .
the . . .



Fig. 2

Telephone with three rooms
 1st floor 1 room 1st floor 1 room
 2nd floor 1 room 2nd floor 1 room



1



2

Thompson, R. N. 1990. *Field and Laboratory Studies of the Biology of the Common Frog (Rana temporaria)*. Ph.D. thesis, University of Illinois at Urbana-Champaign.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1

^a MnO_2 , 0.5 g.¹ Ibid. p. 287.

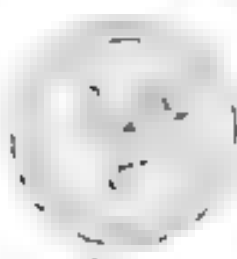
Talk with the students about the differences between the two groups. The difference between them was so well recognized that one could not possibly have been mistaken for the other.

Two globes are shown side-by-side, focusing on the Eastern Hemisphere. The globe on the left shows Africa, Europe, and Asia. The globe on the right shows Australia, East Asia, and parts of Southeast Asia and Oceania. This visual aid likely corresponds to the geographical locations mentioned in the text, such as the Red Sea and the Indian Ocean.

112. 200

Hratch Mikaelian

Trishenon, Sicily. Now we pass to the m. adaption of the trishenon of Sicily. Sicily On the observe the

[illegible]

E. H. Eddy

[illegible][illegible]

[illegible][illegible][illegible]

of the Isle of Man

[illegible]

$\frac{d}{dt} \left(\int_{\Omega(t)} u(x) dx \right) = - \int_{\partial \Omega(t)} u(x) n(x) dS_x$

[illegible]
$$m_{\text{eff}} = \frac{1}{2} m_0 + \frac{1}{2} m_1 + \dots + \frac{1}{2} m_n$$

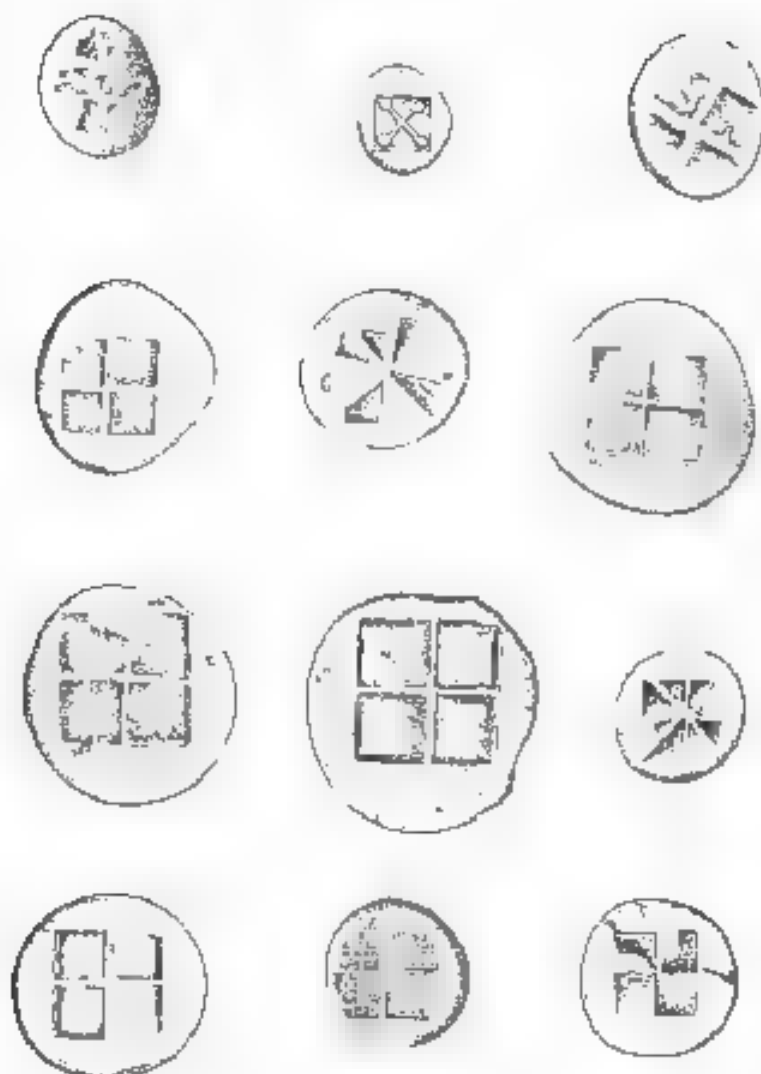
EXPLANATION OF PLATE 8.



PUNCH MARKS ON REVERSE OF ANCIENT COINS.

- Fig. 1. COIN OF LYDIA. Electrum. Oblong sinking between two squares. Babylonian date. The earliest known coinage. Circa 700 B. C.
2. PHEEN IN HALF SECTION. Electrum. Incuse square with crinkled ornament.
3. SILVER COIN OF TRER. Incuse square. Close and D. C.
4. SILVER COIN OF ACANTHUS. Incuse square.
5. SILVER COIN OF MENDE. Incuse triangles.
6. SILVER COIN OF TEBONE. Incuse square.
7. COIN OF BHALTAL. Incuse square. Jatachichu.
8. SILVER COIN OF DUNESCH. Incuse square. Outchichu.
9. CORINTHIAN SILVER COIN. Incuse square divided into eight triangular compartments. The earliest coin of Corinth, dating B. C. 650 to 550.
10. SILVER COIN OF ANDREA. Incuse square.
11. SILVER COIN OF BEXANTHE. Incuse square translated.
12. SILVER COIN OF THORACUS (THORACE). Incuse square.

*The Bhalthal and Terech were Thracian cities situated in the valley of the Strymon and the Angles, to the north of the Paengon Range.



PUNCH MARKS ON REVERSE OF ANCIENT COINS

[illegible]

UNITED STATES OF AMERICA

PRE-COLUMBIAN TIMES

[illegible]

1. The purpose of this report is to provide a summary of the findings of the investigation into the alleged sexual harassment of a female employee by a male supervisor.

[illegible]

was found in the mound. It was 10 feet in height and about 10 feet in diameter. In the center of the mound there was a small opening in the ground, and a small opening in the mound.

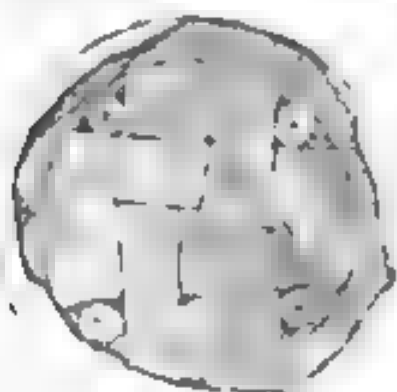


Fig. 237

FIG. 237. A circular object, possibly a shell or a piece of pottery, with a textured surface and some markings.

FIG. 238. A circular object, possibly a shell or a piece of pottery, with a textured surface and some markings.

17 skulls could be preserved. There had been no regularity in placing the bodies.

The peculiar form of this Swastika is duplicated by a Rune Swastika in Sweden, cited by Ludwig Müller and by Count d'Alvim.

The following objects were found in the mound on Fane Island associated with the Swastika shell (fig. 237) and described and many of them figured:¹ A gorget of the same Fulgur shell (fig. 239), a second gorget of Fulgur shell with an engraved spider (fig. 278), a pottery vase (fig. 240) and a long, thin, flat object (fig. 241) seven inches in length, of diameter

one inch, and a small, round, flat object (fig. 242) one inch in diameter. These objects were found in the mound on Fane Island.

pointing needles and paddle-shaped objects. The shell objects (in addition to the disks and gorgets mentioned) were pins made from the columella of Fulgur (fig. 243) and about four inches in length. There were also found some small, round, flat objects in form, an inch in length and upward of an inch in diameter, with a surface of various sizes and shapes made of marine shells, and natural specimens of *Isopoda*, *Uria probatus*.

The following objects were found in the mound on Fane Island, Monroe County, Tenn., found by Mr. Emmert with skeleton No. 49 and is fig.



Fig. 240

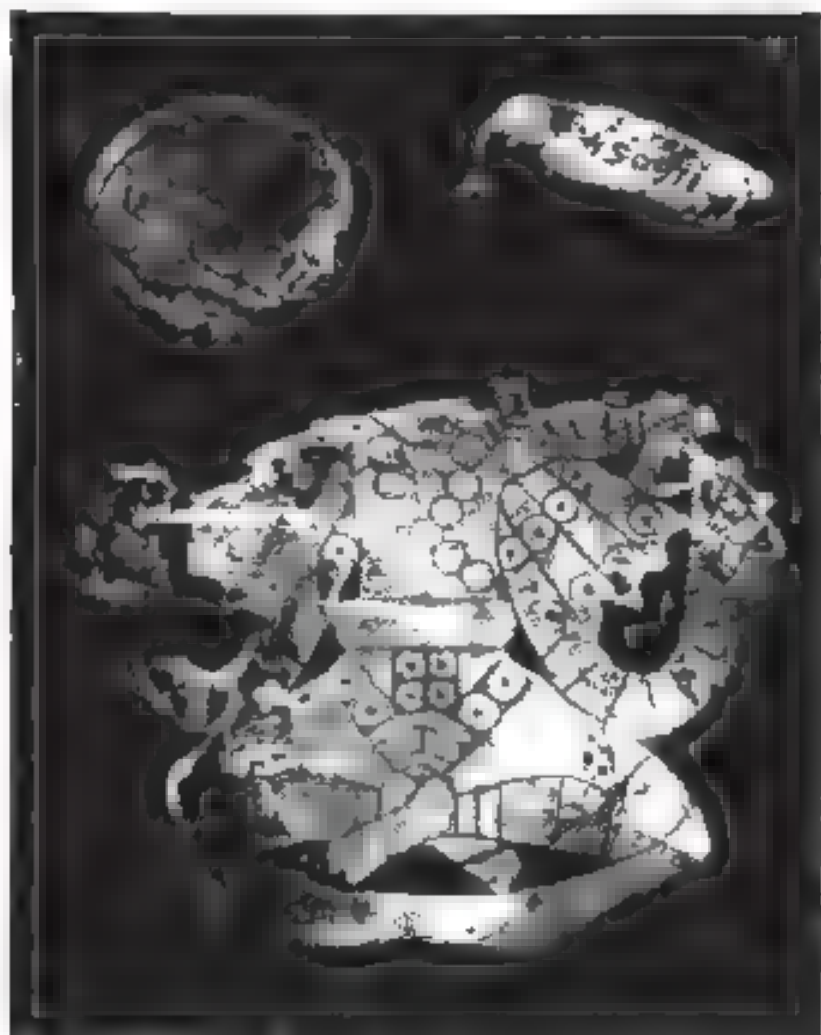
FIG. 240. A circular object, possibly a shell or a piece of pottery, with a textured surface and some markings.

These Mound, Monroe County, Tenn.

The following objects were found in the mound on Fane Island, Monroe County, Tenn., found by Mr. Emmert with skeleton No. 49 and is fig.

The following objects were found in the mound on Fane Island, Monroe County, Tenn., found by Mr. Emmert with skeleton No. 49 and is fig.

The following objects were found in the mound on Fane Island, Monroe County, Tenn., found by Mr. Emmert with skeleton No. 49 and is fig.



ENGRAVED FOSSIL SHELL RESEMBLING STATUE OF BUDDHA.

Taken from the Yenisei.

Lat. No. 15000 N. E. N. 30

The first of these is the swastika, which is a symbol of good luck and happiness. It is a cross with four arms, each ending in a hook. The second is the wheel, which is a symbol of the sun and the moon. The third is the lotus, which is a symbol of purity and enlightenment. The fourth is the conch shell, which is a symbol of the universe. The fifth is the vajra, which is a symbol of power and wisdom. The sixth is the mace, which is a symbol of authority and justice. The seventh is the sword, which is a symbol of courage and strength. The eighth is the bow, which is a symbol of protection and defense. The ninth is the arrow, which is a symbol of direction and purpose. The tenth is the flag, which is a symbol of identity and loyalty. The eleventh is the banner, which is a symbol of proclamation and declaration. The twelfth is the scroll, which is a symbol of knowledge and wisdom. The thirteenth is the book, which is a symbol of learning and education. The fourteenth is the quill, which is a symbol of writing and communication. The fifteenth is the pen, which is a symbol of creation and invention. The sixteenth is the ink, which is a symbol of permanence and endurance. The seventeenth is the paper, which is a symbol of blankness and potential. The eighteenth is the brush, which is a symbol of art and expression. The nineteenth is the palette, which is a symbol of color and creativity. The twentieth is the canvas, which is a symbol of space and imagination. The twenty-first is the frame, which is a symbol of structure and support. The twenty-second is the mirror, which is a symbol of reflection and self-awareness. The twenty-third is the window, which is a symbol of vision and perception. The twenty-four is the door, which is a symbol of entry and exit. The twenty-fifth is the key, which is a symbol of access and control. The twenty-six is the lock, which is a symbol of security and protection. The twenty-seventh is the handle, which is a symbol of grip and control. The twenty-eighth is the knob, which is a symbol of touch and feeling. The twenty-ninth is the hinge, which is a symbol of movement and flexibility. The thirtieth is the joint, which is a symbol of connection and unity. The thirty-first is the bone, which is a symbol of strength and support. The thirty-second is the muscle, which is a symbol of power and energy. The thirty-third is the nerve, which is a symbol of sensation and awareness. The thirty-four is the blood, which is a symbol of life and vitality. The thirty-fifth is the heart, which is a symbol of love and compassion. The thirty-six is the lungs, which are a symbol of breath and life. The thirty-seventh is the stomach, which is a symbol of nourishment and sustenance. The thirty-eighth is the intestines, which are a symbol of digestion and processing. The thirty-ninth is the liver, which is a symbol of detoxification and purification. The fortieth is the kidneys, which are a symbol of filtration and cleansing. The forty-first is the bladder, which is a symbol of storage and release. The forty-second is the ureters, which are a symbol of transport and movement. The forty-third is the penis, which is a symbol of masculinity and virility. The forty-four is the vagina, which is a symbol of femininity and fertility. The forty-fifth is the uterus, which is a symbol of pregnancy and childbirth. The forty-six is the ovaries, which are a symbol of reproduction and heredity. The forty-seventh is the fallopian tubes, which are a symbol of connection and communication. The forty-eighth is the cervix, which is a symbol of passage and transition. The forty-ninth is the hymen, which is a symbol of virginity and purity. The fiftieth is the clitoris, which is a symbol of pleasure and sensation. The fifty-first is the labia, which are a symbol of protection and lubrication. The fifty-second is the perineum, which is a symbol of support and structure. The fifty-third is the anus, which is a symbol of elimination and release. The fifty-four is the rectum, which is a symbol of storage and transport. The fifty-fifth is the sigmoid colon, which is a symbol of digestion and absorption. The fifty-six is the cecum, which is a symbol of storage and fermentation. The fifty-seventh is the appendix, which is a symbol of defense and protection. The fifty-eighth is the small intestine, which is a symbol of digestion and absorption. The fifty-ninth is the large intestine, which is a symbol of storage and elimination. The sixtieth is the rectum, which is a symbol of storage and transport. The sixty-first is the sigmoid colon, which is a symbol of digestion and absorption. The sixty-second is the cecum, which is a symbol of storage and fermentation. The sixty-third is the appendix, which is a symbol of defense and protection. 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The seventy-six is the small intestine, which is a symbol of digestion and absorption. The seventy-seventh is the large intestine, which is a symbol of storage and elimination. The seventy-eighth is the rectum, which is a symbol of storage and transport. The seventy-ninth is the sigmoid colon, which is a symbol of digestion and absorption. The eightieth is the cecum, which is a symbol of storage and fermentation. The eighty-first is the appendix, which is a symbol of defense and protection. The eighty-second is the small intestine, which is a symbol of digestion and absorption. The eighty-third is the large intestine, which is a symbol of storage and elimination. The eighty-four is the rectum, which is a symbol of storage and transport. The eighty-fifth is the sigmoid colon, which is a symbol of digestion and absorption. The eighty-six is the cecum, which is a symbol of storage and fermentation. The eighty-seventh is the appendix, which is a symbol of defense and protection. The eighty-eighth is the small intestine, which is a symbol of digestion and absorption. The eighty-ninth is the large intestine, which is a symbol of storage and elimination. The ninetieth is the rectum, which is a symbol of storage and transport. The hundredth is the sigmoid colon, which is a symbol of digestion and absorption.

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hinged, two stone perforators.

49. Lot of shell beads.

50. One polished stone hatchet, one + one polished stone ornament (perforated), one mica. lot of red paint, two shell gorges (one fig. 2118). thirty-six arrow-heads, lot of flint

51. One shell tusk, one shell gorge, one shell ornament.

equally reliable

armed with a laser rifle and a gas mask, waiting in ambush. The eleven
persons were all arrested, being no space for the twelve
left. The two persons who had been taken to the shore
left the boat, leaving only the two persons who had been taken
The two persons who had been taken to the shore
left the boat, leaving only the two persons who had been taken
The two persons who had been taken to the shore
left the boat, leaving only the two persons who had been taken



Printed on

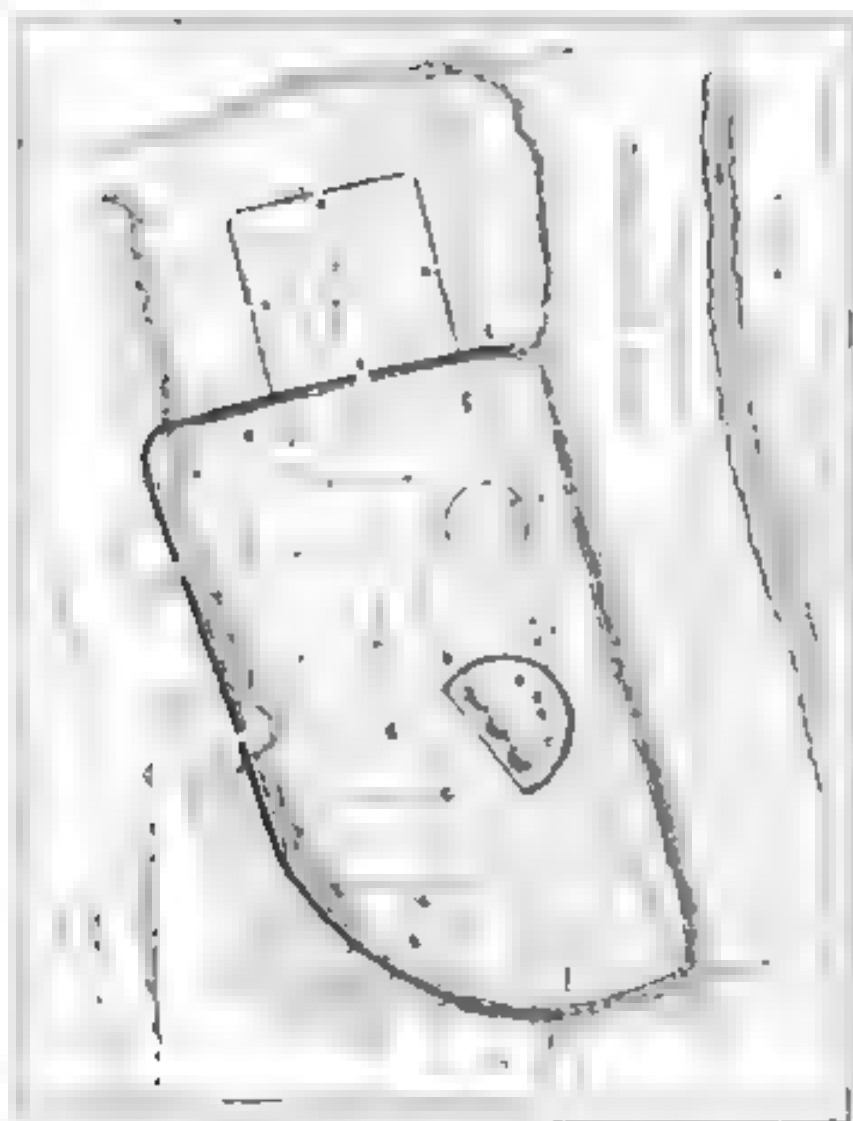
[illegible][illegible]

interesting feature of the design is the highly conventionalized wing which like the snake forms the uplifted arm. This wing is unlike the usual specimens of aboriginal art which have been found in such profusion in that neighborhood. But it is again remarkable that the conventionalized wing and the bracelets, anklets, and garters show correspondence in their peculiar arrangement of construction and design with the



Fig. 4.
COPPER PLATE
Repoussé work
Eskowah Mound, Georgia
1890-1891

wings on the banner and shield, figures from the Eskowah mound, Georgia (figs. 340, 341, and 4—). Like the effigies the effigies figure is an ornament resembling the spreading tail of an eagle which is further arranged and the letter of the word is also corresponded to the figure with the eagle effigies in repoussé copper (fig. 44) from the mound in



their "Ancient Mound of the Mississippian Valley" in 1890 and also those of the same material found by Professor Phelan in the Turner group of mounds in the valley of the Little Miami. They had been apparently laid between two layers of bark, whether for preservation or mere convenience of deposit, can only be guessed.

The following list of objects is given, to the end that the reader may see what

was associated with

these newly found

copper Swastikas.

Five Swastika

crosses (fig. 244), a

long mass of copper

covered with wood

on one side and

with a smaller mass

of similar design

traceable on the re-

verse (smaller mass

of copper, right-angle or per

verse of four copper rings, one set of three and

one set of two, the rings are of not shaped) (fig. 245) and circular mass

with holes in copper (fig. 246) and

mainly found in a jar, now on the ground

also large circular,

stamped-like orna-

ments, one (fig.

246) 7½ inches in

diameter; another

(fig. 247), somewhat

in the shape of a

St. Andrew's cross,

the extreme length

over the arms

being 3½ inches

About five feet below the deposit of

short copper and 7 or 10 feet below

these, marked by eight golden

They were covered with copper plates and

fragments corner in each, and pearl

laid in rectangles for about seven

feet in length and five feet in width, and a stone in the frequently



Fig. 244.

SWASTIKA IN THE FORM OF A CROSS OF COPPER.

Hopewell Mound, Ohio.
Excavated by
Prof. Phelan.



Fig. 245.

SWASTIKA IN THE FORM OF A CROSS OF COPPER.
Hopewell Mound, Ohio.
Excavated by
Prof. Phelan.

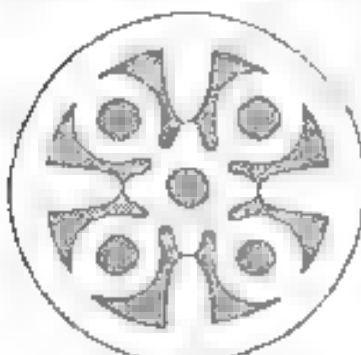


Fig. 246.

SWASTIKA IN THE FORM OF A CROSS OF COPPER.
Hopewell Mound, Ohio.
Excavated by
Prof. Phelan.

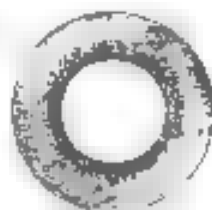


Fig. 247.

SWASTIKA IN THE FORM OF A CROSS OF COPPER.
Hopewell Mound, Ohio.
Excavated by
Prof. Phelan.

There were also found sixty-six copper hatchets, ranging from 2½ to 2½ inches in length; twenty-three copper plates and fragments,



Fig. 247.

STENCIL ORNAMENT OF
THIS TYPE.

Hopewell Mound, Ross
County, Ohio.

By William Allen.

one copper eagle, eleven semicircles, bars, &c., two spoon-shaped objects, four comma-shaped effigies, one wafer with peculiar circles and bars of copper, three long plates of copper, pearl and shell beads, one tooth, a lot of plain flint beads, a lot of wood beads, one, an unknown metal, a lot of bones, a human jaw, very large; a fragmentary fish resembling a sucker (fig. 248); one stool of copper with two legs; broken copper plates, one broken shell, bear and panther teeth,

many plates, forty fragmentary and a few

copper stencils of squares, circles, diamonds, hearts, &c. copper objects, saw shaped,

twenty ceremonial objects, rusted or oxidized



Fig. 248.

LUXURIOUS SHAPE OF ONE OF THE CUPPER

Hopewell Mound, Ross County, Ohio.

By William Allen.

a Mississippi River, but the zoologists of the Museum, while unable to return me with exactness to a tamed representation wholly from the unadorned condition of the fragment, report it more likely to be the



Fig. 248.

FISH RESEMBLING A SUCKER.

Hopewell Mound, Ross County, Ohio.
By William Allen.

zed copper, two diamond shaped stencils, copper (fig. 249), four peculiar spoon-shaped copper ornaments, perforated, showing repoussé work (fig. 250).

I made sketches of two or three of the bone carvings, for the purpose of showing the art of the people who constructed this monument, so that by comparison with that of other known peoples some knowledge may be obtained of their advancement, concerning the race or tribe to which they belonged and the epoch in which they lived. Fig. 251 shows an exquisite bone carving of a paroquet which belongs much farther south and not from the same locality as modern times. The design shown in fig. 252 suggests

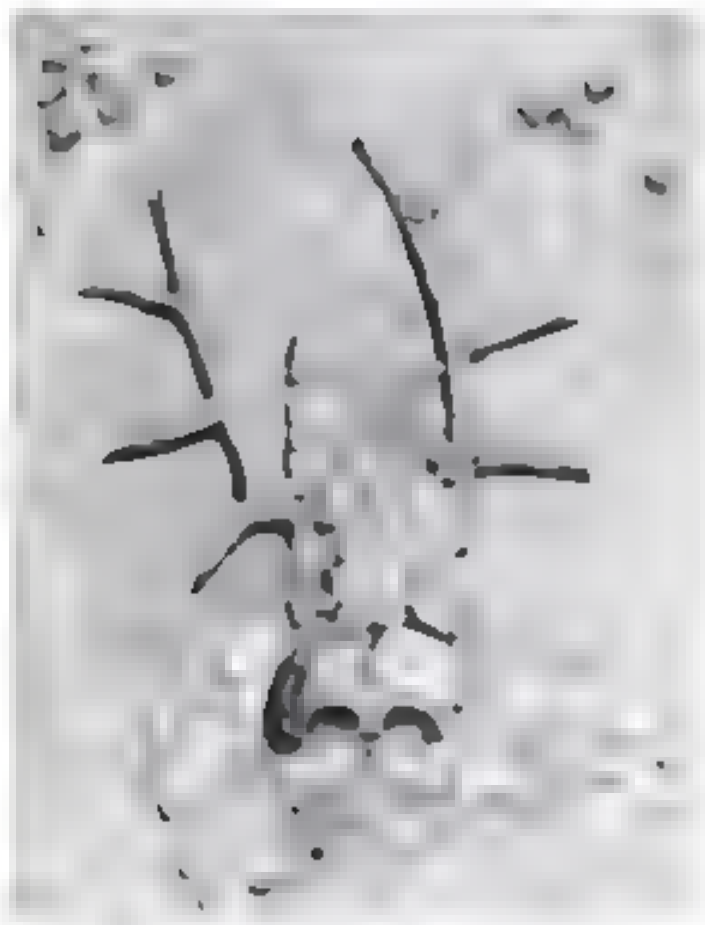


Figure 1. A square stone tablet with a stylized, abstract carving, possibly a cross or a stylized figure, set against a textured background.



PLATE 4
Wilson
1876

head of the "leather-back" turtle. Fig 253 probably represents an otter with a fish in his mouth.

In trench No 3, 2 skeletons numbered 264 to 278, inclusive, were found on the base line, all extended. Objects of coal bone, shell, or stone, had been placed with nearly all of them. Nos. 265 and 266 were laid on blocks of burnt earth 3 inches higher than the base of the mound. One of the skeletons in this mound No. 248 is shown in pl. 13. It was a most remarkable specimen and forms the frontispiece of Prof W. K. Moorehead's volume "Prehistoric Man in Ohio," where it is described (p. 195) as follows:

At the head were arranged a horus basket made of wood and covered with sheet copper rolled into symmetrical forms over the prongs. The basket was 22 inches

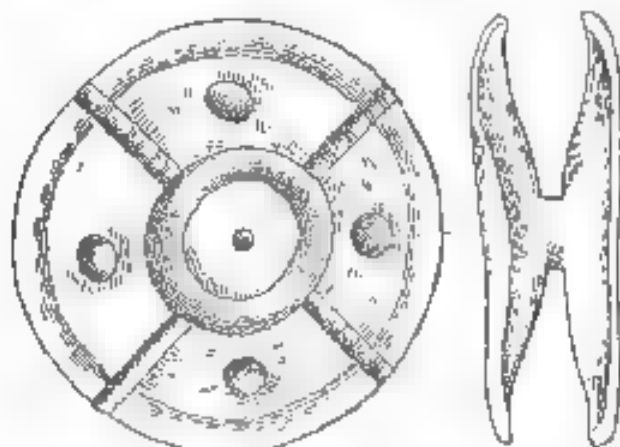


FIG. 250.
WHEEL-SHAPED BASKET OF COPPER.
Remains still intact in position.
Jupewell Mound, Ross County, Ohio.
Towles.

high and 22 inches across from prong to prong. They found also a crown of copper bent over the head from occiput to upper jaw, a pair of pipes with a hole in the breast and stomach also on the back. The copper covered the bones and sides of the skeleton. I also preserved traces of each skeleton to collect back of its extent until worn among the strands of which were 1000 beads of pearl mother, most of which I kept as an indication of their beads, on a pear and shell. A copper spiral-shaped object and other implements covered the remains. A pipe of pipe to the shoulder and of agate were near the right shoulder. The pipe was of very fine workmanship and highly polished.

While digging out skeletons 280 to 284 Professor Moorehead says they touched the edge of an altar pl. 14. It was on the base line and 15 feet north of the copper box before described. On the 5th of January, 1892, the altar was uncovered and beneath, clams and objects which it put into five soap boxes and transportation to headquarters,

where the material was scattered and intermingled with mica. The bones were in many cases found in the same place as the mica. The bones were of various sizes and shapes, and were found in many places. The bones were of various sizes and shapes, and were found in many places.



Fig. III.

One of the bones found in the same place as the mica.

ments, copper balls, fragments of cloth, rings of chlorite, quartz crystals perforated and grooved, and a few pieces of flint and obsidian, with several unknown pearls drilled for suspension. These objects were heaped in the cavity of the altar without any regularity. All were affected by heat, the copper being fused in many cases. The teeth and tusks were charred, spot, and calcined. There were a

number of small objects, the appearance of the debris, as

perforated mica, and other objects, which were found in the same place as the mica. The bones were of various sizes and shapes, and were found in many places. The bones were of various sizes and shapes, and were found in many places.

The bones were of various sizes and shapes, and were found in many places. The bones were of various sizes and shapes, and were found in many places.

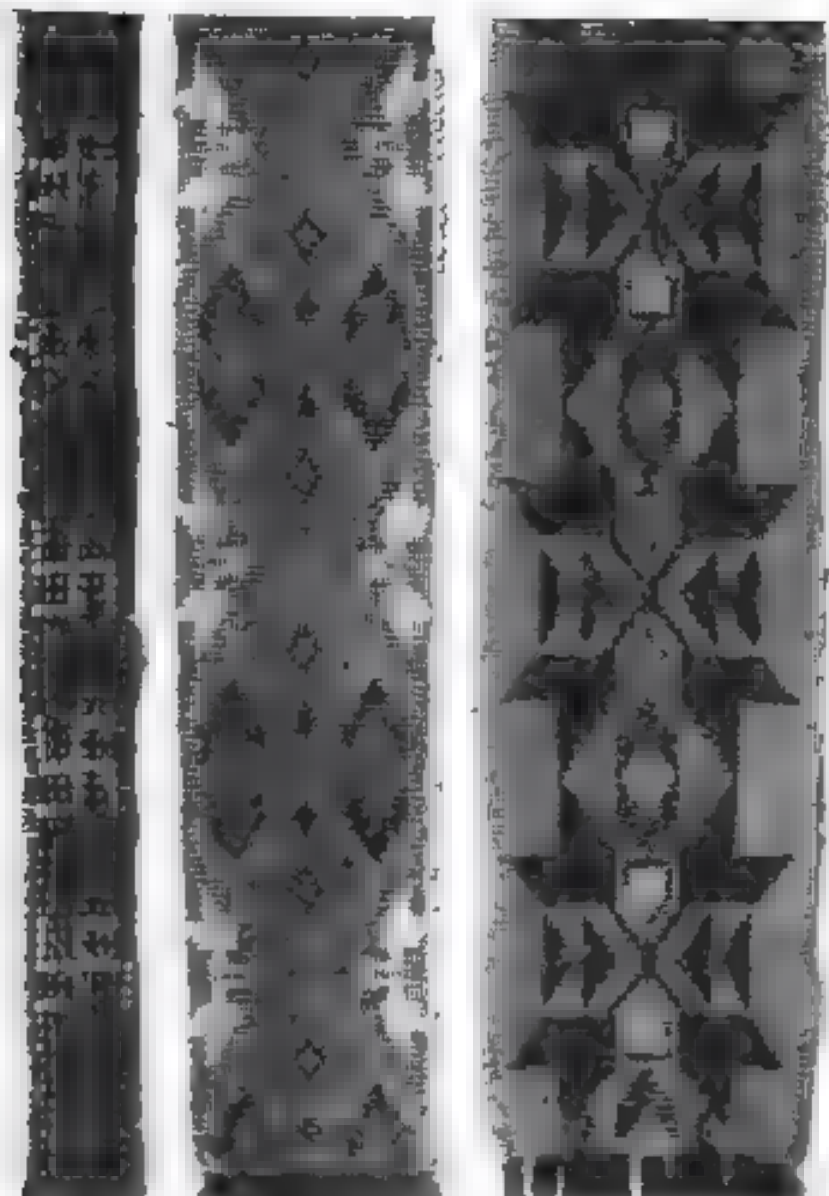
Figuer) native to the southern Atlantic Coast (500 miles distant, many of these carried several thousand pieces of mica from the mountains of Virginia or North Carolina, 200 or more miles distant; a thousand large blades of beautifully shaped objects in obsidian



Fig. IV.

One of the bones found in the same place as the mica.

The bones were of various sizes and shapes, and were found in many places. The bones were of various sizes and shapes, and were found in many places.



outside of the gentes of the council lodge:

swains, I was, and (I have been told by the Winnebagoes
the real Swastika and the

I do not believe they entertain any such ideas, as
told to me. They call it "Inok" and say the

skins, and otter and squirrel is is.

Of the other one mentioned, those who worship it
they
stomach and do not wear the
times to be made in quilt embroidery on herl.

and regretted by all who knew it.

一、
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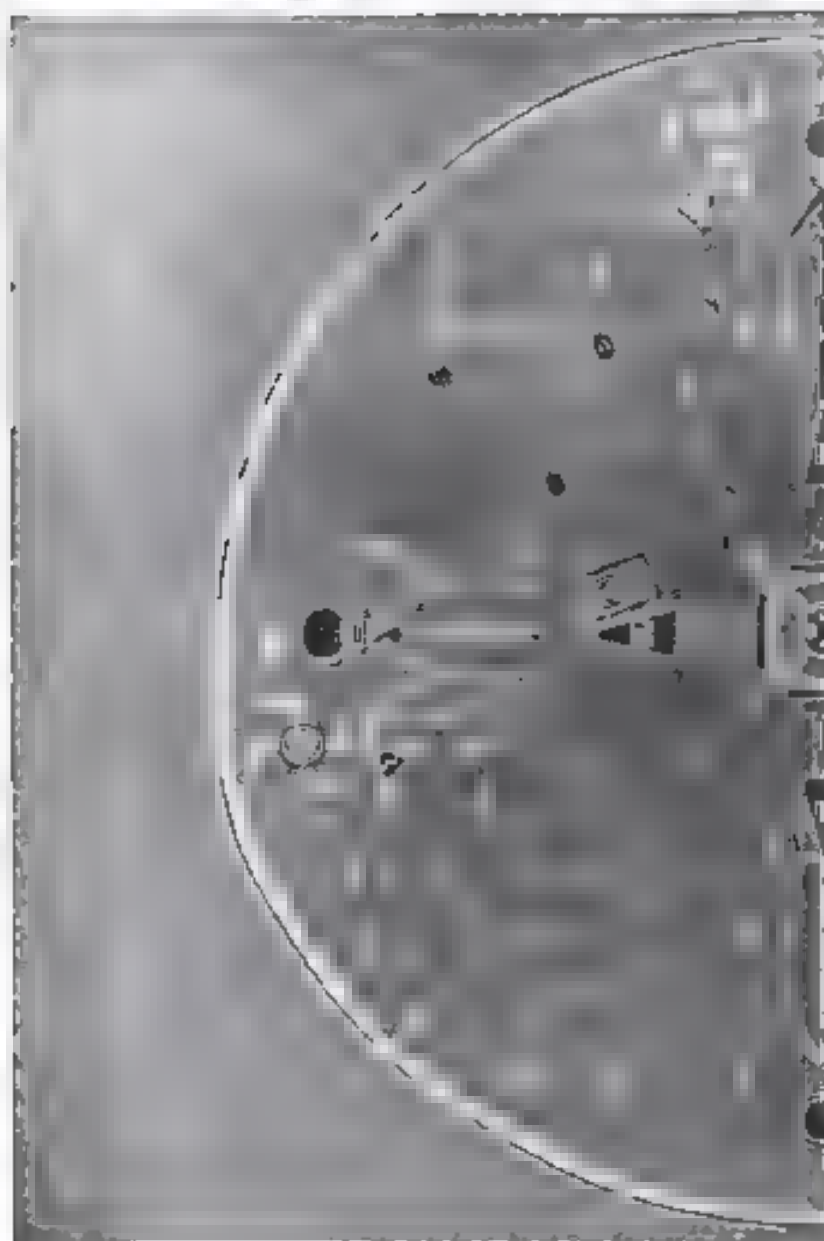
Dr. Schlegel reports¹

Royal Museum at Berlin

tika marks, chiefly of the ogre form²

¹ "Troja," p. 128

² "The Chief Jewellers of the Mass Vermeil, and the German Colonial & Co., Chicago, 1893



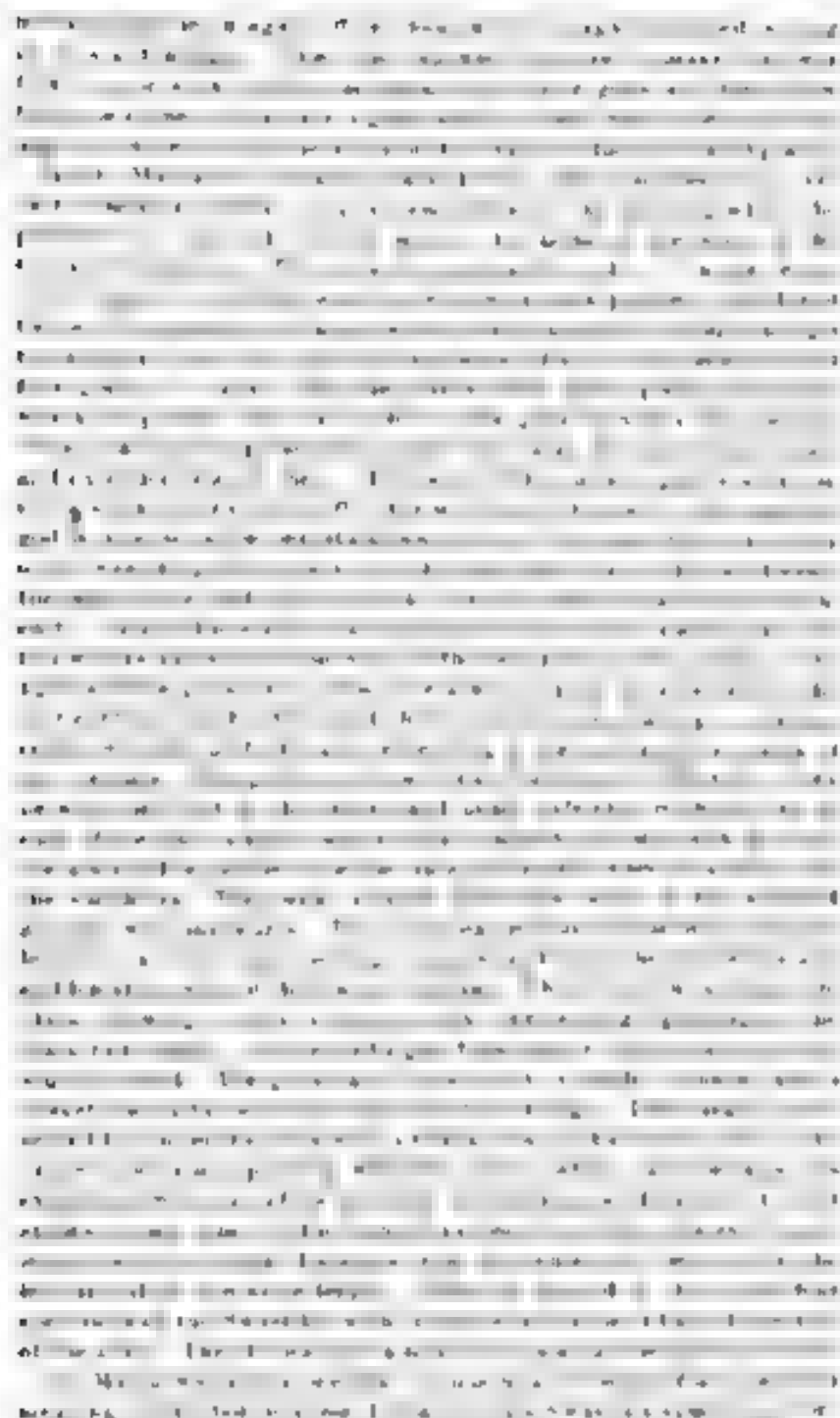
NAVY DAY PAINTING

10' long and 10' high. The ship's hull is painted in black and white.



CHAMPAIGN SWASTIKAS

Field Annual Report of the Bureau of Entomology 1909, p. 211



cross a las ante, already noting by it or at least only to make an ornament and the devout Indian who makes the same sign in coloring the church or the Indian who thus represents the four winds of heaven. He who made the Swastika recognizes its occult power for good and against evil, and he thereby strokes the power to secure prosperity. One who made no gift of it, apparently knew nothing of the occult Swastika, she was not endeavoring to reproduce the religious idea. She only sought to make some arrangement of their symbol into a design, to produce a new ornamental pattern.

CENTRAL AMERICA

NICARAGUA.

The specimen shown in fig. 200 (in No. 10746, I. S. N. M.) is a fragment of a large stone incense burner from Zapatera, a small Nicaraguan. The incense was chiseled or pecked out of the stone. A circular base is surrounded by moldings, the series of which appears from the incense burner to be a large figure, the outline of which is a Greek cross, the whose exterior was Swastika. The form is such a

perfect, except that one bent arm is separated from its stem by a shallow groove.

"The Cross, Ancient and Modern," by W. W. Blake, shows, in its fig. 31, a Swastika pure and simple, and is cited by its author as representing a cross found by Squier in Central America. The Mexican enthusiast, Orozco y Berra, claims at first glance that it shows Buddhist origin, but I have not been able as yet to verify the quotation.

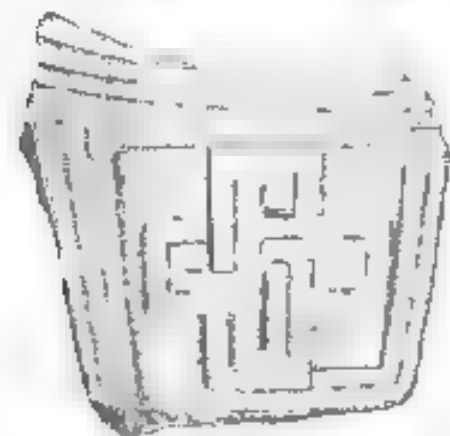


FIG. 200.

AN INCENSE BURNER FROM ZAPATERA, NICARAGUA.

FIG. 200.

FIG. 200.

FIG. 200.

Dr. Schreman reports, in the Ethnological Museum at

Berlin a pottery bowl from Yucatan, the rim with a Swastika, the bowl being decorated with a large and a small figure of a person, the last excavation in Yucatan showing well found several incense burners and pottery.

Long ago, a fragment of a stone incense burner was discovered in the ruins of Mayan. It was published a drawing in the Pro-

The work of the Bureau of Standards in the field of the measurement of the length of the day is of interest to the scientific community in general, and to the public in particular. The Bureau has been engaged in a series of experiments to determine the length of the day with increasing accuracy. The results of these experiments are given in the following table. The first column gives the year in which the experiment was made, the second column gives the number of days in the year, and the third column gives the length of the day in seconds. The results show that the length of the day is not constant, but varies slightly from year to year. The variation is due to a number of causes, including the Earth's rotation, the Earth's orbit, and the Earth's internal structure. The Bureau is continuing its work in this field, and expects to publish further results in the near future.

The work of the Bureau of Standards in the field of the measurement of the length of the day is of interest to the scientific community in general, and to the public in particular. The Bureau has been engaged in a series of experiments to determine the length of the day with increasing accuracy. The results of these experiments are given in the following table. The first column gives the year in which the experiment was made, the second column gives the number of days in the year, and the third column gives the length of the day in seconds. The results show that the length of the day is not constant, but varies slightly from year to year. The variation is due to a number of causes, including the Earth's rotation, the Earth's orbit, and the Earth's internal structure. The Bureau is continuing its work in this field, and expects to publish further results in the near future.

usually unable to solve.

The work of the Bureau of Standards in the field of the measurement of the length of the day is of interest to the scientific community in general, and to the public in particular. The Bureau has been engaged in a series of experiments to determine the length of the day with increasing accuracy. The results of these experiments are given in the following table. The first column gives the year in which the experiment was made, the second column gives the number of days in the year, and the third column gives the length of the day in seconds. The results show that the length of the day is not constant, but varies slightly from year to year. The variation is due to a number of causes, including the Earth's rotation, the Earth's orbit, and the Earth's internal structure. The Bureau is continuing its work in this field, and expects to publish further results in the near future.

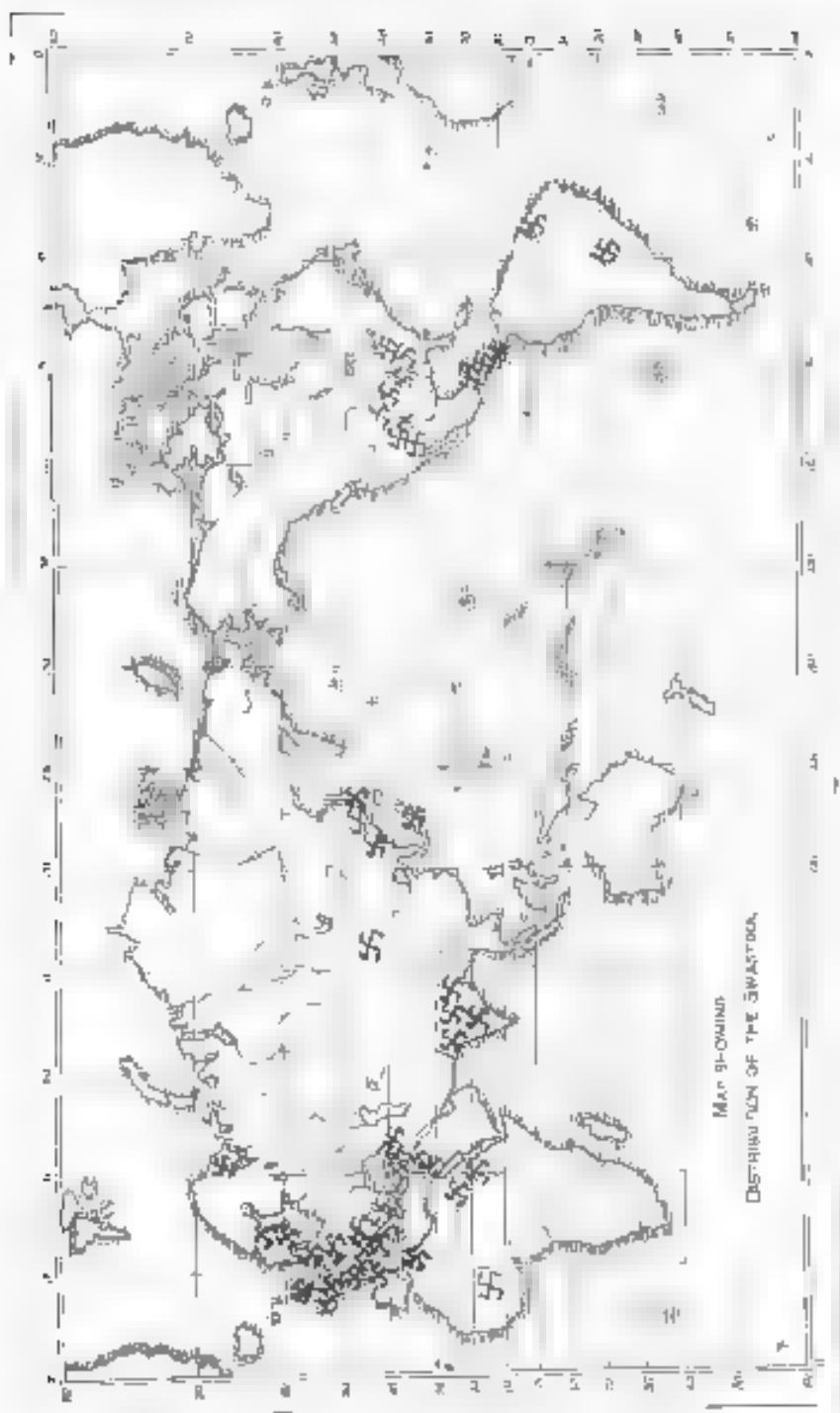


PINUS LATIFOLIA - PIN LEAF

Specimens of Pinus latifolia

specimens of Pinus

at Rio de Janeiro and São Paulo



is linked with the swastika and is also found in the form of a swastika. A similar symbol is found in the form of a swastika. In certain cases, the symbol is found in the form of a swastika.

PARAGUAY

The swastika is found in the form of a swastika in the form of a swastika. It is found in the form of a swastika in the form of a swastika. It is found in the form of a swastika in the form of a swastika. It is found in the form of a swastika in the form of a swastika.

II—FIGURES ALLIED TO THE SWASTIKA

MEANDERS, OGGES AND SPIRALS BENT TO THE LEFT AS WELL AS TO THE RIGHT

There are certain forms related to the normal swastika in a variety of ways. These forms are related to the normal swastika in a variety of ways. These forms are related to the normal swastika in a variety of ways. These forms are related to the normal swastika in a variety of ways.

The cross with extended arms is related to a spiral form of these figures. The cross with extended arms is related to a spiral form of these figures. The cross with extended arms is related to a spiral form of these figures. The cross with extended arms is related to a spiral form of these figures.



FIG. 10

MEANDERS, OGGES AND SPIRALS BENT TO THE LEFT AS WELL AS TO THE RIGHT

The swastika is found in the form of a swastika in the form of a swastika. It is found in the form of a swastika in the form of a swastika. It is found in the form of a swastika in the form of a swastika. It is found in the form of a swastika in the form of a swastika.

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The swastika is found in the form of a swastika in the form of a swastika. It is found in the form of a swastika in the form of a swastika. It is found in the form of a swastika in the form of a swastika. It is found in the form of a swastika in the form of a swastika.

AMERICAN ENGRAVINGS AND PAINTINGS.

The first engraving is a portrait of a man, possibly a Native American, wearing a hat and a long coat. The second engraving is a landscape scene with a body of water and a small boat. The third engraving is a portrait of a woman, possibly a Native American, wearing a headscarf and a long dress.

The fourth engraving is a landscape scene with a body of water and a small boat. The fifth engraving is a portrait of a man, possibly a Native American, wearing a hat and a long coat. The sixth engraving is a landscape scene with a body of water and a small boat.



The seventh engraving is a landscape scene with a body of water and a small boat. The eighth engraving is a portrait of a man, possibly a Native American, wearing a hat and a long coat. The ninth engraving is a landscape scene with a body of water and a small boat.

The tenth engraving is a portrait of a man, possibly a Native American, wearing a hat and a long coat. The eleventh engraving is a landscape scene with a body of water and a small boat. The twelfth engraving is a portrait of a man, possibly a Native American, wearing a hat and a long coat.

out, the shells otherwise left entire, and they served as vessels for holding or carrying liquids. When intended for ornaments, they were cut into the desired form and engraved with the design; if to be used as gorgets, holes were drilled for suspension. Frequently they were smoothed on the outside and the design engraved thereon. The preference of the aborigines for the *Fulgur* shell may

for the decoration of

applied, although the

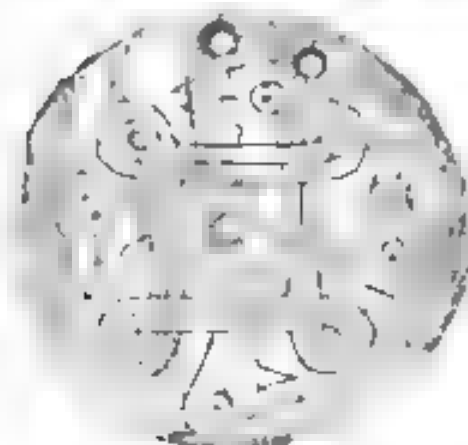
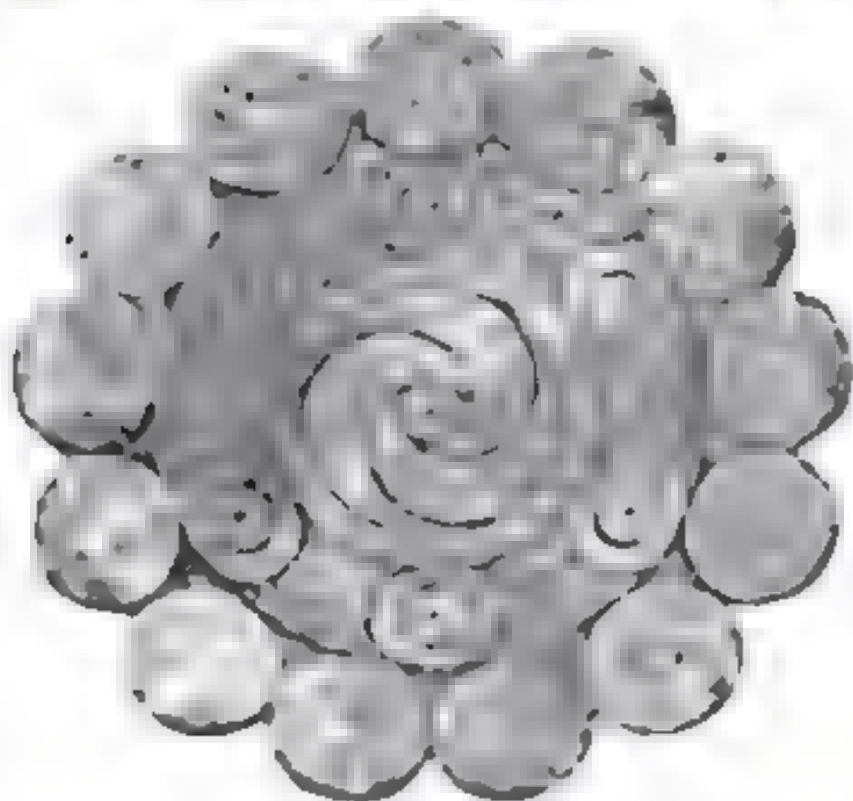


Fig. 100.
CORNET FOR TRUSSING.

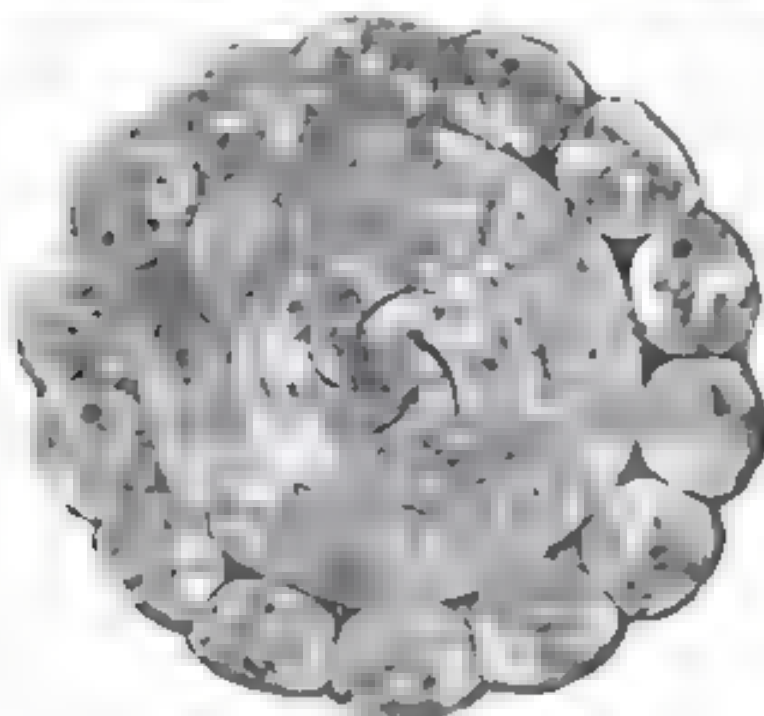
and human masks were employed. No detailed description of the patterns of this shellwork will be attempted, because figures will be required to give the color information for the interpreta-

of the cuts and some of the descriptions are taken from the annual reports of the Bureau of Ethnology and for as relates to shell mostly from Mr. Holmes's paper on "Art in Shell of the Ancient Americans." I desire to express my thanks for all

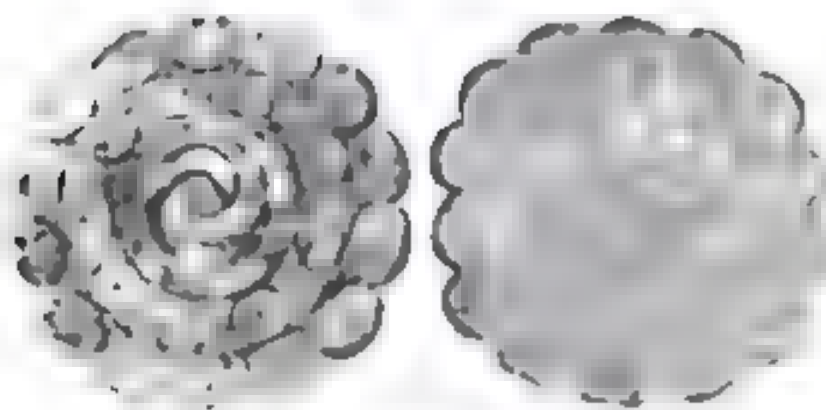
been deemed proper to introduce them



the disk.



is from a stone grave



The object is a flat, circular, disc-like form, light brown in color, with a central spiral and a rim of small, rounded lobes. The object is a small, flat, circular, disc-like form, light brown in color, with a central spiral and a rim of small, rounded lobes.

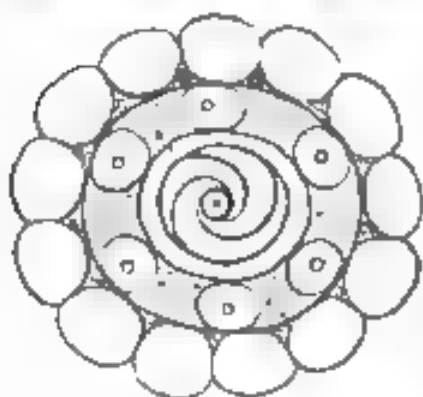


Fig. 372.

SPHERICAL SHELL CASE

1.5 cm. diam.

Thin, smooth, white (typical)

The object is a flat, circular, disc-like form, light brown in color, with a central spiral and a rim of small, rounded lobes. The object is a small, flat, circular, disc-like form, light brown in color, with a central spiral and a rim of small, rounded lobes.

The object is made up of fourteen small, rounded lobes, the edges of which give to the object a scalloped rim. This ornament, on its concave figured surface, has been covered with red paint, much of which is still visible. The smooth, rounded surface is highly polished and the object is a small, flat, circular, disc-like form, light brown in color, with a central spiral and a rim of small, rounded lobes.

The form of the object is similar to that of the object found at the Harpeth river.

The object is a small, flat, circular, disc-like form, light brown in color, with a central spiral and a rim of small, rounded lobes. The object is a small, flat, circular, disc-like form, light brown in color, with a central spiral and a rim of small, rounded lobes.

unfaded, the outline having been cut in the shell sufficient to indicate the form, but not perfected. Figs. 370 and 371 show obverse and reverse sides of the same shell. It comes from one of the stone graves of Tennessee, and is thus described by Dr. Joseph Jones, of New Orleans, as a specimen of the deposit and original condition of these objects.

In a carefully constructed stone sarcophagus in which the face of the object is cut up toward the center, and a beautiful shell ornament was found resting upon the sarcophagus of the object. The object is 1.5 inches in diameter and it is ornamented on its concave surface with a

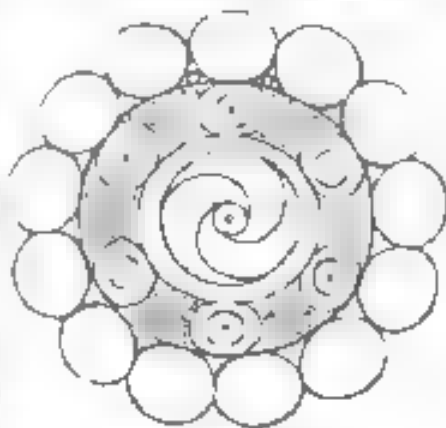


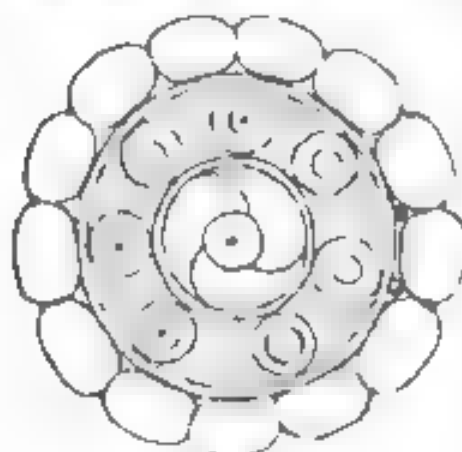
Fig. 373.

SPHERICAL SHELL CASE

1.5 cm. diam.

Thin, smooth, white (typical)

Fig. 271. A bronze gorget from the collection of the U. S. National Museum. The gorget is of the same shape as the one shown in Fig. 270, but the design is different. It is a circular disk with a central cross and a spiral design around it.



EMERALD STONE DISK,
Tombstone.

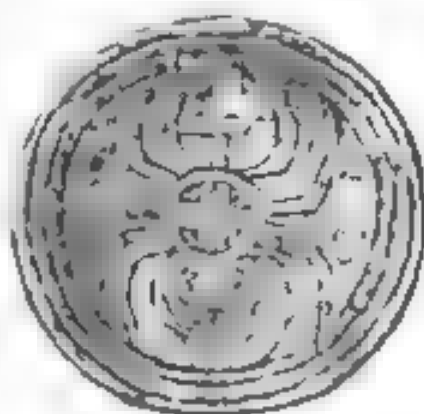
resulting from the deep engraving of the three lines of the volute on the concave side. The stone grave in which this ornament was found occupied the summit of a mound on the banks of the Cumberland River, opposite Nashville, Tenn.

Figs. 272, 273, and 274 are other representations of the carved in spirals, and may have greater or less relation to the Swastika. They are inserted for comparison and without any expression of opinion. They are drawn in outline, and the spiral form is thus more easily seen.

The following are several examples upon these designs

and gives his theory concerning their use

to allocate these works from the category of antiquities to what I consider their rightful place—the various art of a people with great capacity for its own works. What the gorgets themselves were, or of what particular value to their possessor, shall I say? Simple ornaments, most be, but in themselves, a matter of conjecture. They were hardly less than the other



The spider.—The spider was represented on the shell gorget. The following are four of these gorgets, of which the first, No. 275, to 277 display the Greek cross in the center, surrounded by two concentric circles. The design is a circle which is the body of a spider. Fig. 276 shows the same spider and circle, and inside of the circle

Fig. 275, p. 276, p. 276, figs. 2, 3, 4

Fig. 276, p. 276

Second Ann. Rep. Bureau of Ethnology 1890-91, pl. 61

the shell with the spider, and, though it contains no cross nor semblance of the Swastika, derives its value from the same mound on Fanc Island, Tennessee, as was the true



represent the shell with the spider, and, though it contains no cross nor semblance of the Swastika, derives its value from the same mound on Fanc Island, Tennessee, as was the true

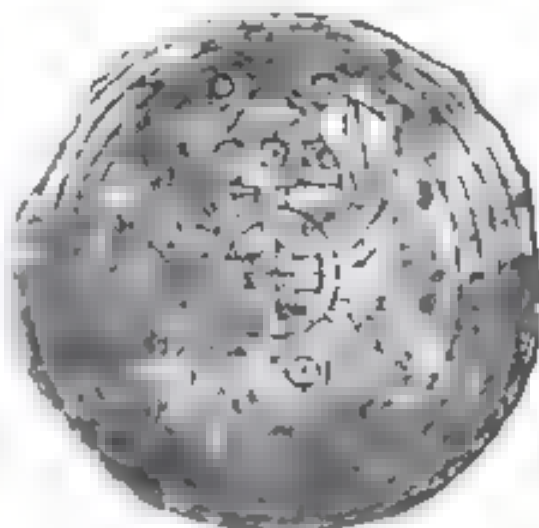
The ornament is a

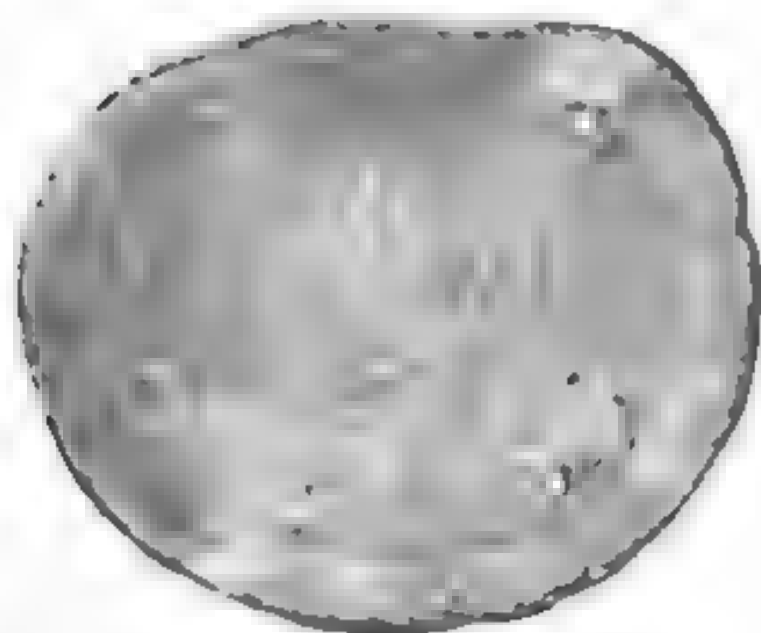
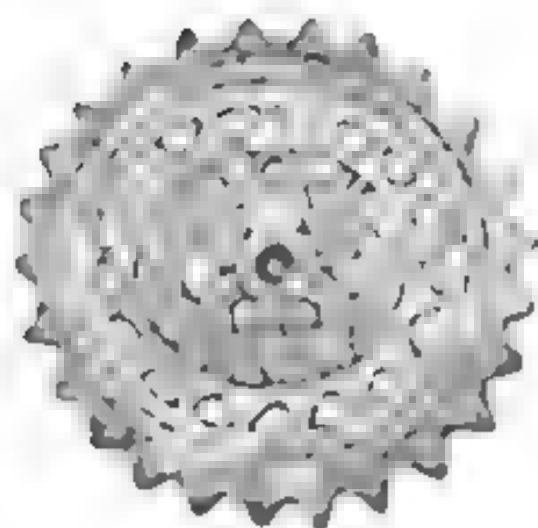
on these gorgets, affording, as it did, an opportunity for the aborigines to make a display of elegance of design, and of accuracy and fineness in execution. Fig. 370 is a spec-

the ornament is a

outside of the circle the tail is shown in its rattle. This symbol is represented. Two-fourths size, and comes from Mt. Vernon mound, Tennessee. Four others of similar design are also from Tennessee and neighboring States, but the locality is more restricted than is the case with other shell disk ornaments.

The human face and form — These were also carved and wrought upon shells in the same general locality. The engraving is always on the





These human faces and forms (figs. 380-388) as well as the others, belong to the same form, and are found in their remains in the mounds. The figures are inserted, as is the rattlesnake, for comparison.

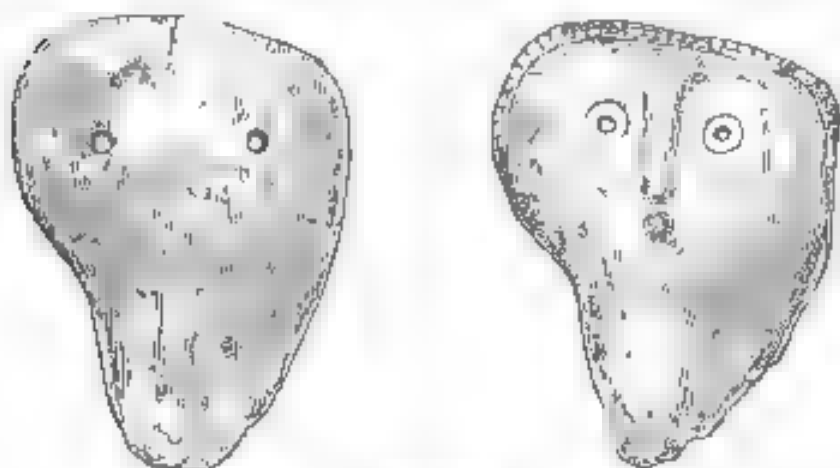


Fig. 380 and 381

Fig. 380 and 381. DIFFERENT VIEWS OF THE HUMAN FACE

Fig. 380 and 381. DIFFERENT VIEWS OF THE HUMAN FACE

Fig. 380 and 381. DIFFERENT VIEWS OF THE HUMAN FACE

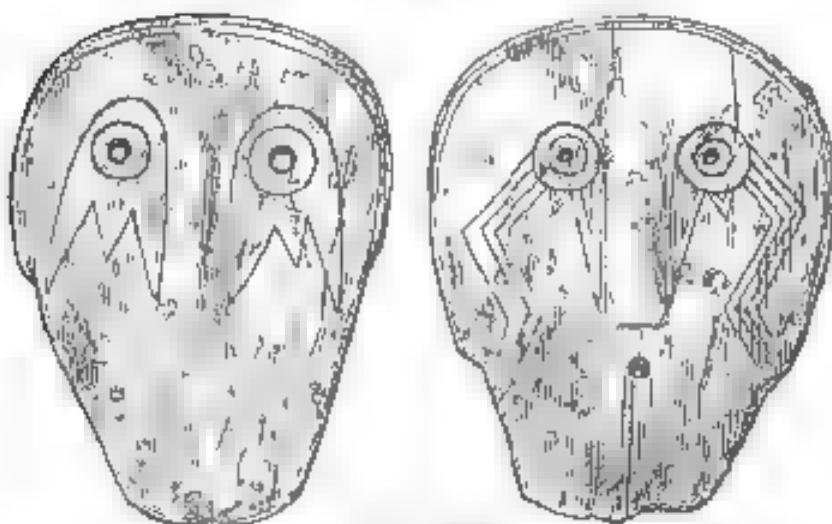


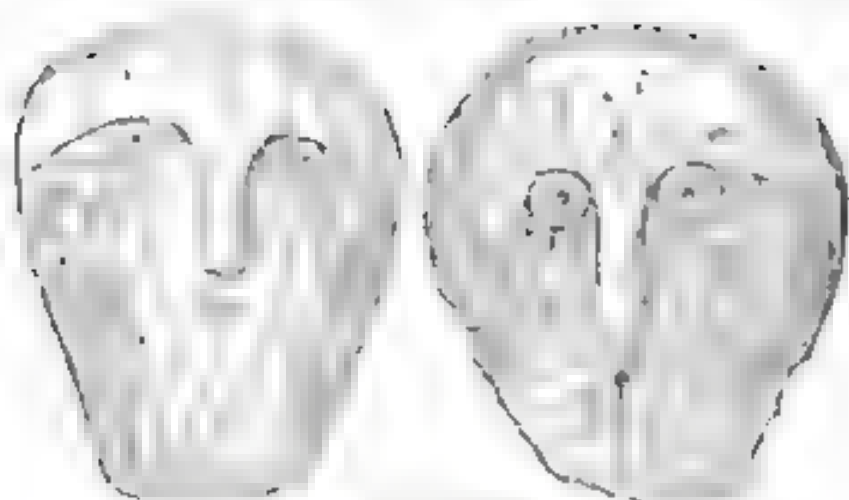
Fig. 382 and 383

Fig. 382 and 383. DIFFERENT VIEWS OF THE HUMAN FACE

Fig. 382 and 383

Fig. 382 and 383. DIFFERENT VIEWS OF THE HUMAN FACE

as with the shell. The figures are made of the same material as the rattlesnake figure. The figures are made of the same material as the rattlesnake figure. The figures are made of the same material as the rattlesnake figure.



While the above is the general character of the material, it is not uniform in its composition. The material is composed of a mixture of sand, silt, and clay, and is of a light gray color. The material is of a fine texture, and is of a light gray color. The material is of a fine texture, and is of a light gray color.

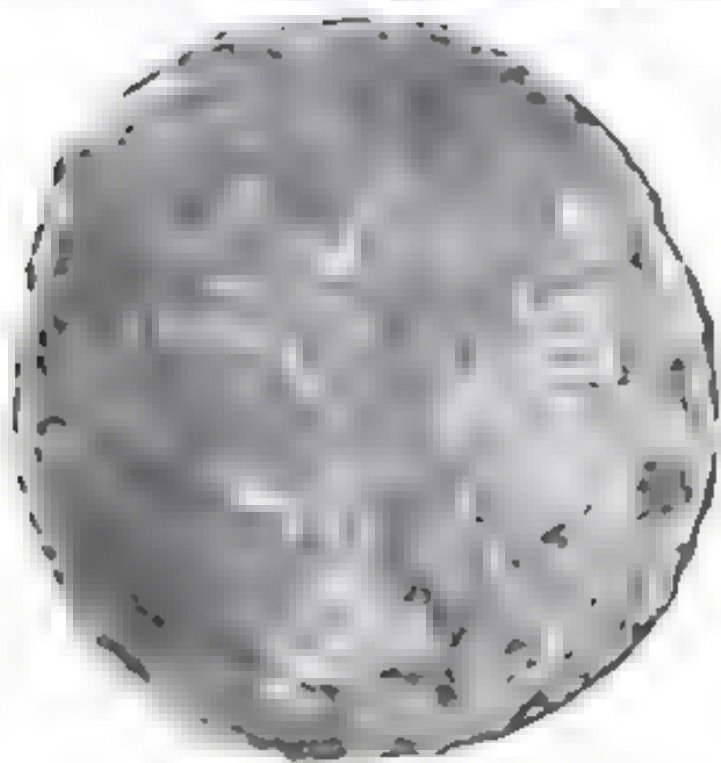


PLATE 10

A. B. C. D. E. F. G. H. I. J. K. L. M. N. O. P. Q. R. S. T. U. V. W. X. Y. Z.

The above is the general character of the material, it is not uniform in its composition. The material is composed of a mixture of sand, silt, and clay, and is of a light gray color. The material is of a fine texture, and is of a light gray color. The material is of a fine texture, and is of a light gray color.

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garters or bracelets as the Swastika, two as in the same as in the fig. 39 figures fig. 39 and the ornament as whole resembles closely those in the upper figures figs. 340 and 341.

SWASTIKA PATTERNS.

Spiral vessel designs resembling the Swastika's general effect are found on a few pieces of mud pottery from the Chertsey valley. The Fourth Annual Report of the Bureau of Ethnology 1882-83 shows

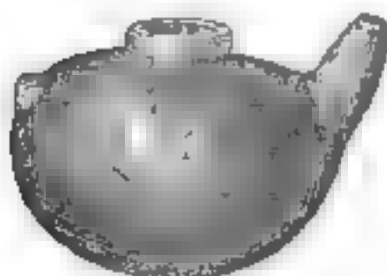


Fig. 340.
Small rounded vessel.
Found at Chertsey, Surrey, England.
British Museum.
No. 1882-83.

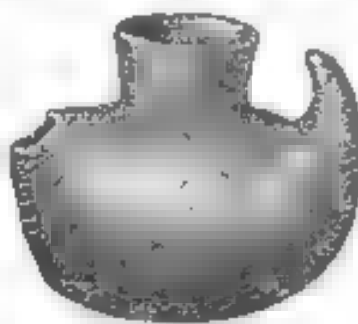


Fig. 341.
Small rounded vessel.
Found at Chertsey, Surrey, England.
British Museum.
No. 1882-83.

many of these. Fig. 340 represents a small, rounded vessel from Archaean, and the blue of which is shown in fig. 341. It shows the small spiral which we saw on the small vessels, and sprouting from the four opposite sides are three twisted lines, twisting spirally to the right, forming the four volutes of the Swastika (tetraakheton) and covering the entire side of the vessel. The spiral form of the Swastika is given in fig. 340, a vessel of an entire shape from Pecan Point, Ark. The decoration is in the form of two lines crossing each other and each arm then twisting to the right, forming a distal, the used lines of which, though drawn close

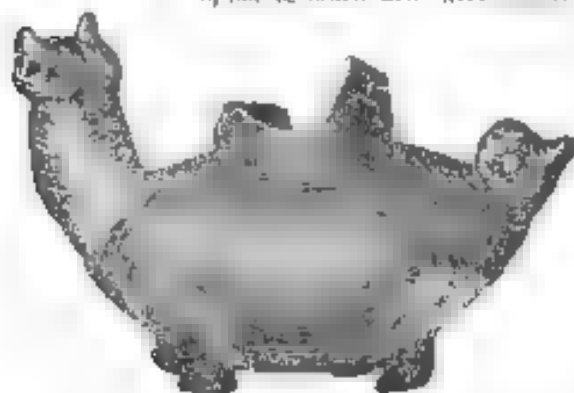


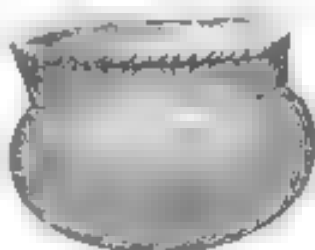
Fig. 342.
Pottery vessel from the Fourth Annual Report.
No. 1882-83.
British Museum.
No. 1882-83.

right, forming a distal, the used lines of which, though drawn close

legislation and no association, that a national or international
system of uniformity should be used. It was questioned whether it was
all of kind and were considered to represent any particular
or any other specific form of the cross.

One evidence of this is that these ornaments shade off indefinitely until they arrive at a form which was surely not intended to represent any form of the cross, whether Swastika or not. The line of separation is not now suggested by the author. An elaboration of the preceding forms, bowl of the vessel and its ornamentation, is shown by the vessel represented in fig. 231, which is fashioned to represent some grotesque beast with horns, expanding posterior, and grinning mouth, yet which might serve as a teapot as well as the former two vessels.

IN THE COURT OF THE DISTRICT OF COLUMBIA



File

[illegible]

Figure 2

FOOTING WERE IDENTIFIED WITH VOLUNTARY
ARRANGEMENTS.

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The spiral Swastika form appears painted upon the pottery from Arkansas. The specimen shown in fig. 24 is a tripod bottle. The decoration upon the side of the body consists of two lines forming the cross, and the four arms expand at once and the ornament covers one-third of the vessel, and with the other two similar ornaments, extend around the entire circle. This decoration is painted in red and white colors on a gray or yellowish ground. Fig. 25 of Arkansas bowl from north No. 3, Thores farm, Taylor County green, black tree.



Fig. 24

TRIPOD POTTERY VASE.

Short armed volutes making spiral Swastika.

A. H. S. S.

P. M. S.

Pontsett County Ark. 16 to 18 inches wide and six inches high. The clay of which it is made forms the body color—light gray. It has been painted red or mottled on the outside without any decoration, while on the inside is painted with the same color a five-armed cross, spirally arranged in volutes turning to the right. The center of the cross is at the bottom of the bowl. From the painted spiral lines extend over the bottom and up the sides to the rim of the bowl, the interior being

entirely covered with the design. Another example of the same style of decoration is seen on the upper surface of an ancient vase from the province of Olbia.¹

The specimen shown in fig. 206 is from the mound at Arkansas Post, in the county and State of Arkansas.² It represents a vase of black ware, painted a yellowish green, with a red spiral scroll. Its diam-



POTTERY BOWL WITH FIVE ADDED SPIRAL SWASTIKAS IN THE CENTER.
Arkansas Post, Ark.
U. S. Nat. Mus. No. 100, 100

eter is 5½ inches. These spiral figures are not uncommon in the localities heretofore mentioned as showing the normal Swastika. Figs. 207 and 208 show parallel incised lines of the same style as those

¹Fourth Ann. Rep. Bureau of Ethnology, 1822-83, p. 343, fig. 33.

²Third Ann. Rep. Bureau of Ethnology, 1881-83, fig. 146.

³Ibid., pp. 602, 603, figs. 146, 147.



Fig. 26.
 POTTERY VESSEL.
 Three swastikas on the body with diagonal lines
 representing a lotus.



Fig. 27.
 SWASTIKA ON A CERAMIC VESSEL.
 with a lotus. (In the center of the swastika is a lotus.)

THE CROSS AMONG THE AMERICAN INDIANS DIFFERENT FORMS

The following specimens are sufficient to show the prevalence of the cross-like symbol among the North American Indians. The symbol is found on objects of wood, bone, stone, and copper, and is sometimes of the form of a cross, sometimes of a cross with a central dot, and sometimes of a cross with a central dot and a central line. The symbol is found on objects of wood, bone, stone, and copper, and is sometimes of the form of a cross, sometimes of a cross with a central dot, and sometimes of a cross with a central dot and a central line.

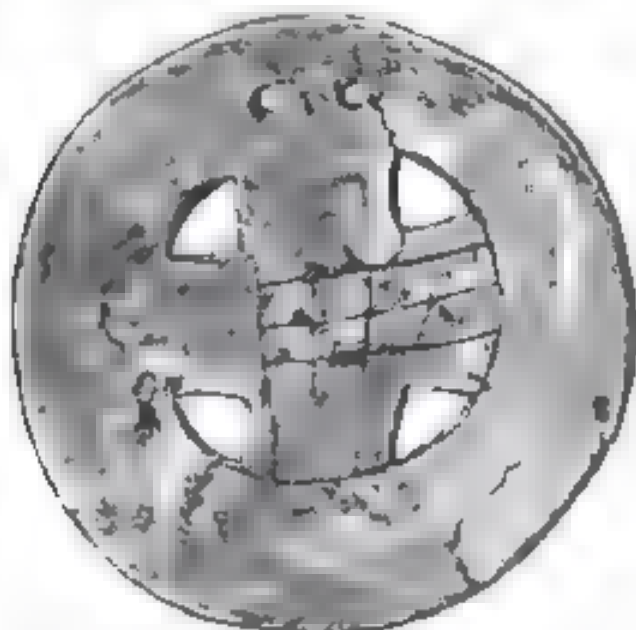


Fig. 100.
A cross on a shell, from the collection of the
National Museum.

The cross-like symbol is found on objects of wood, bone, stone, and copper, and is sometimes of the form of a cross, sometimes of a cross with a central dot, and sometimes of a cross with a central dot and a central line.

THE CROSS ON OBJECTS OF SHELL AND COPPER

The shell engraved specimen is from the collection of Mr. J. M. Peck, and was found on a mound in the County, Ill. It is a more than three inch diameter object, and is of the form of a cross with a central dot. The surfaces are smooth and the margins are rounded and polished.

Near the upper edge are two perforations, both well worn with marks indicating suspension. The cross in the center of the concave face of the disk is quite simple and is made of four triangular perforations which separate the arms. The face of the cross is ornamented with six carefully drawn incised lines interlacing in the center as shown in the figure, three extending along each arm to the right and three passing down the lower arm to the inclosing base. Nothing has been learned of the character of the interments with which this object

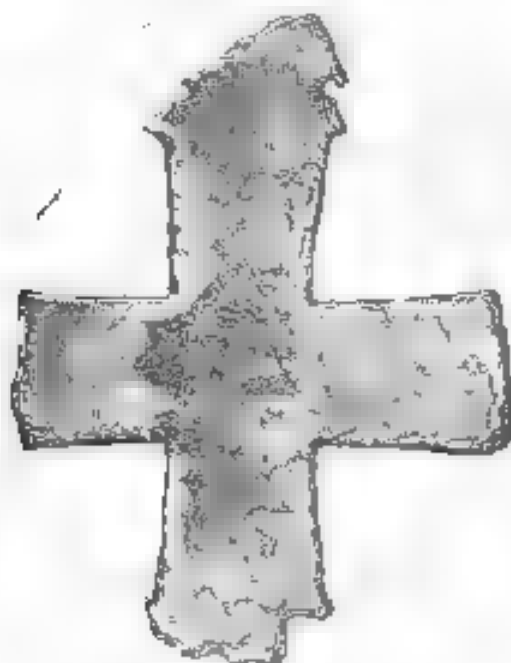


Fig. III

CORRODED IRON OBJECT

Rock Cross

Charleston, Mo.

Bureau Annual Report of the U. S. G. S. 1894-95, p. 49, 2

then was associated. The incised lines of the specimen indicate the possible intention of the artist to make the Swastika. The design is evidently a cross and apparently modern.

The National Museum possesses a large sheet cross (fig. 40) which, while quite plain as a cross, has been much damaged, so that that formerly enclosed to it as in the foregoing figure, having been broken away and lost. The perforations are still evident. The specimen

Second Ann. Rep. Bureau of Geology 1880-81, p. 21, pl. 61 fig. 4

is much corroded and came from the National Museum with a skin of a
 a piece of the metal. The only one that has been found in the past.

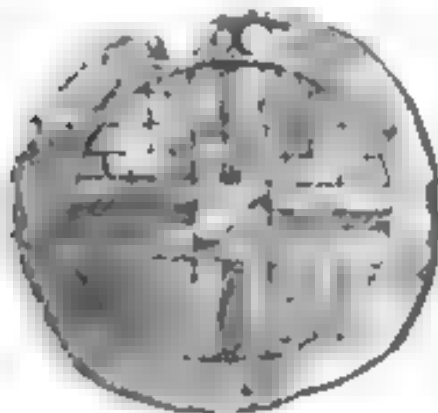


Fig. 30. A symmetrical cross, the arms of which are five inches in length, has been cut out of the center. Two concentric lines have been impressed in the plate, one near the margin and the other touching the ends of the cross. Fig. 30+ shows a shell fragment from a mound on Lick Creek, Tennessee. It is much corroded and broken, yet it shows the cross plainly. There are sundry pits or dots made irregularly over the surface, some of which have perfor-

the same. It is in the National History Museum, New York. It is a
 a piece of the metal. The only one that has been found in the past.

mon. A symmetrical cross, the arms of which are five inches in length, has been cut out of the center. Two concentric lines have been impressed in the plate, one near the margin and the other touching the ends of the cross. Fig. 30+ shows a shell fragment from a mound on Lick Creek, Tennessee. It is much corroded and broken, yet it shows the cross plainly. There are sundry pits or dots made irregularly over the surface, some of which have perfor-

resents a representation of
 the same.

the same. It is in the National History Museum, New York. It is a
 a piece of the metal. The only one that has been found in the past.

men shown in fig. 303 is quoted as a "typical example of the cross of the mound-builder." It was obtained from a mound on Lick Creek, Tennessee, and is in the Peabody Museum (Cambridge, Mass.). While an elaborate description is given of it and figures are mentioned as "devices probably significant," and "elementary or unfinished," and more of the same, yet nowhere is suggested any relationship to the Swastika, nor even the possibility of its existence in America.

A large copper disk from an Ohio mound is represented in

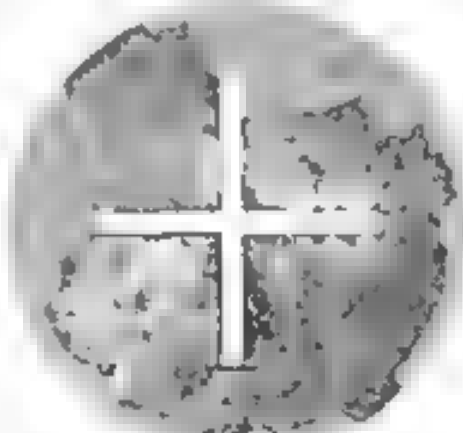


Fig. 31. A large copper disk from an Ohio mound is represented in the same. It is in the National History Museum, New York. It is a piece of the metal. The only one that has been found in the past.

the same. It is in the National History Museum, New York. It is a piece of the metal. The only one that has been found in the past.

EXPLANATION OF PLATE 19.



VARIOUS FORMS OF CROSSES IN USE AMONG NORTH AMERICAN INDIANS, FROM GREEK CROSS TO SWASTIKA.

Fig. 1. GREEK CROSS.

2. GREEK CROSS.

3. CROSS ON COPPER.

4. CROSS ON SHELL.

5. GREEK CROSS.

6. GREEK CROSS.

7. LATIN CROSS, Copper.

Fig. 8. GREEK CROSS.

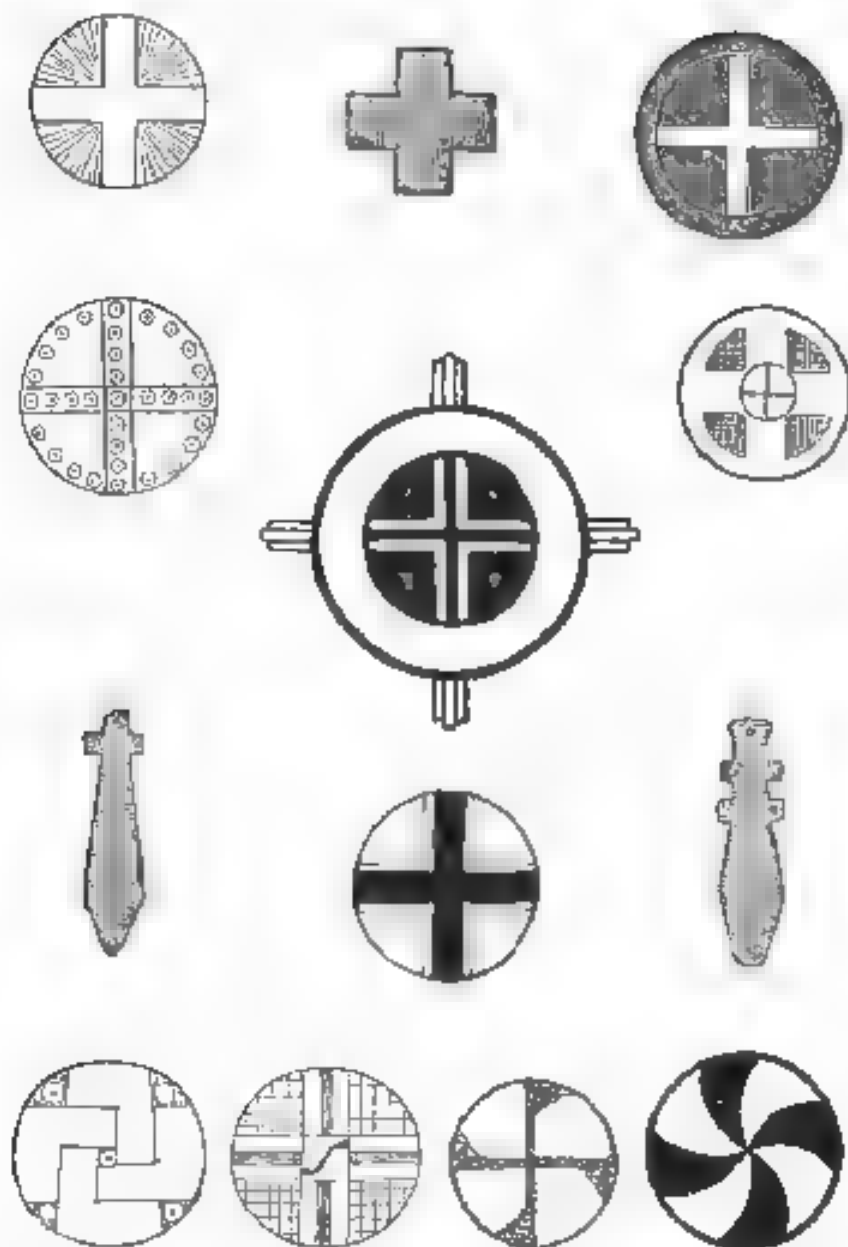
9. LATIN CROSS, Copper.

10. SWASTIKA ON SHELL.

11. SWASTIKA ON SHELL.

12. SWASTIKA ON POTTERY.

13. SWASTIKA ON POTTERY.



VARIOUS FORMS OF CROSSES IN USE AMONG NORTH AMERICAN INDIANS, FROM GREEK CROSS TO SWASTIKA.

Bureau Annual Report of the Bureau of Ethnology 1893-94 Pl. 91p.

and four are crossed in the center. While it is true that they are known to have been used by the ancient Greeks, the ends being rounded to conform to a circle.²¹ Figs. 7 and 8 of pl. 10 represent forms of the Latin cross, and are modern, having doubtless been introduced by European priests. Figs. 10 to 13 are representatives of the Swastika in some of its forms.

The U. S. National Museum possesses a small shell ornament (fig. 305) in the form of a cross, from Lepore's burial place, Fort Defiance, Caldwell County, N. C., collected by Dr. Spethhour and Mr. Rogan, the latter being an employé of the Bureau of Ethnology. It is in the form of a Greek cross, the four arms measuring a right angle and being of equal length. The ornament is of the following shape:

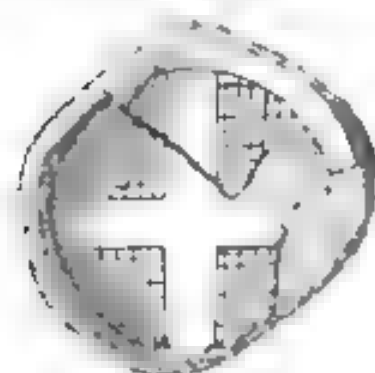


Fig. 305.

ENGRAVED SHELL, WITH STYLIZED CROSS.
CROSS.

From the collection of the U. S. National Museum.

is a white shell, with a cross in the center, the cross being of the following shape:

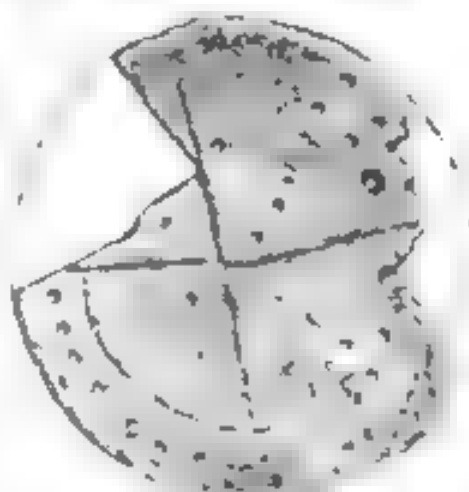


Fig. 306.

SHELL CROSS WITH MANY DOTS.

From the collection of the U. S. National Museum.

From the collection of the U. S. National Museum.

which is the same as the one shown in the field being cross hatched. The specimen is of the same size as the one shown in the field being cross hatched. It is a shell cross with many dots.

This and the foregoing specimens have been introduced into this paper that the facts of their existence may be presented for consideration and to aid in the determination whether the cross had any peculiar or particular meaning.

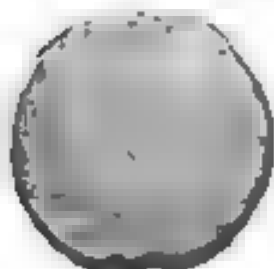
The questions



Fig. 307.

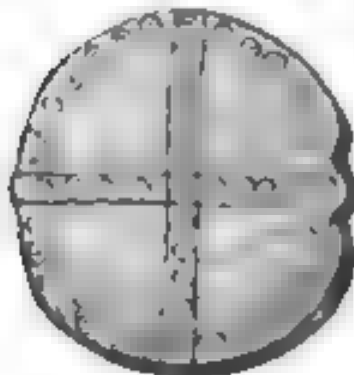
SHELL CROSS (CROSSED).
From the collection of the U. S. National Museum.

The first of these is the fact that the system is not a simple one. It is a complex system, and the behavior of the system is not linear. The system is nonlinear, and the behavior of the system is not linear. The system is nonlinear, and the behavior of the system is not linear.



United Fruit and Sugar Co., Inc.

knowledge. Many of the art objects in
shall therefore be and were more or less
closely associated; they came from the
and the results were the results



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 8. 2019. 12. 1. (수) 21:00 ~ 22:00 (1시간)
 9. 2019. 12. 1. (수) 22:00 ~ 23:00 (1시간)
 10. 2019. 12. 1. (수) 23:00 ~ 24:00 (1시간)

these signs are found in a great many of the most important
of the ancient monuments of the East. The swastika is found in the
most ancient of the Indian monuments, and is also found in the
most ancient of the Chinese monuments. It is also found in the
most ancient of the Egyptian monuments, and is also found in the
most ancient of the Assyrian monuments. It is also found in the
most ancient of the Babylonian monuments, and is also found in the
most ancient of the Persian monuments. It is also found in the
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most ancient of the Roman monuments.

The swastika is found in the most ancient of the Indian monuments, and is also found in the most ancient of the Chinese monuments. It is also found in the most ancient of the Egyptian monuments, and is also found in the most ancient of the Assyrian monuments. It is also found in the most ancient of the Babylonian monuments, and is also found in the most ancient of the Persian monuments. It is also found in the most ancient of the Greek monuments, and is also found in the most ancient of the Roman monuments.

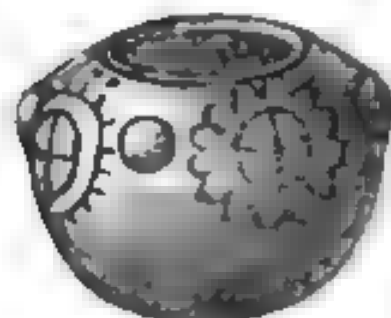


Fig. 310

small circle. The specimen shown in fig. 308 is from an ancient grave in Upper Sandusky, Ohio, and that shown in fig. 309 from an Indian cemetery at Onondaga, N. Y. Similar specimens have been found in the same localities.

THE CROSS ON POTTERY

Fig. 310 shows a small globular cup of dark ware from the vicinity of Charleston, Mo.; height, 2½ inches, width, 1½ inches. On the rim of the cup, there are four circular motifs, each containing a cross-like design. These motifs, painted red, are four orna-

ments which are found in the most ancient of the Indian monuments, and is also found in the most ancient of the Chinese monuments. It is also found in the most ancient of the Egyptian monuments, and is also found in the most ancient of the Assyrian monuments. It is also found in the most ancient of the Babylonian monuments, and is also found in the most ancient of the Persian monuments. It is also found in the most ancient of the Greek monuments, and is also found in the most ancient of the Roman monuments.

The swastika is found in the most ancient of the Indian monuments, and is also found in the most ancient of the Chinese monuments. It is also found in the most ancient of the Egyptian monuments, and is also found in the most ancient of the Assyrian monuments. It is also found in the most ancient of the Babylonian monuments, and is also found in the most ancient of the Persian monuments. It is also found in the most ancient of the Greek monuments, and is also found in the most ancient of the Roman monuments.



Fig. 111.

OLLA DECORATED WITH GREEN AND BROWN FIGURES.

From the Report of the Bureau of Anthropology, p. 101.



Fig. 112.

POTTERY VASED VESSEL.

Middletown, Tenn.

From the Report of the Bureau of Anthropology, p. 101.

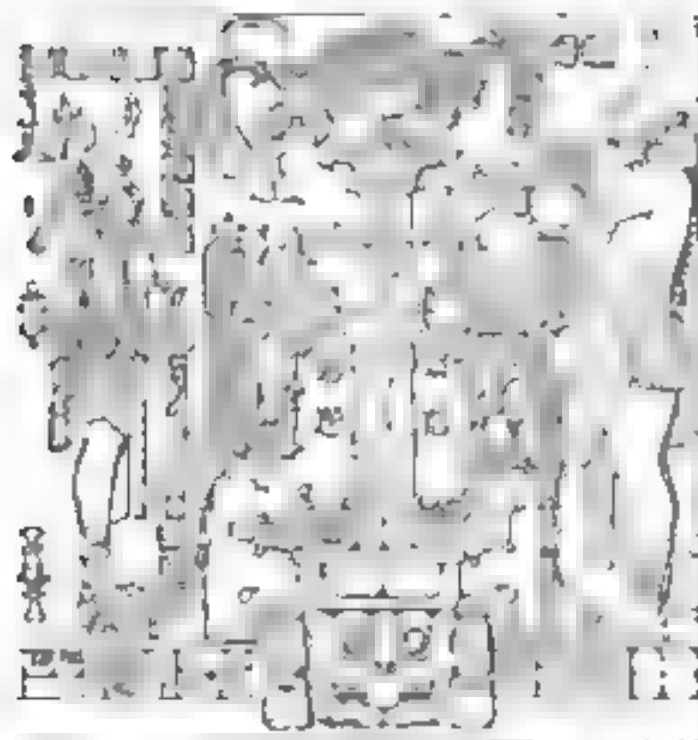
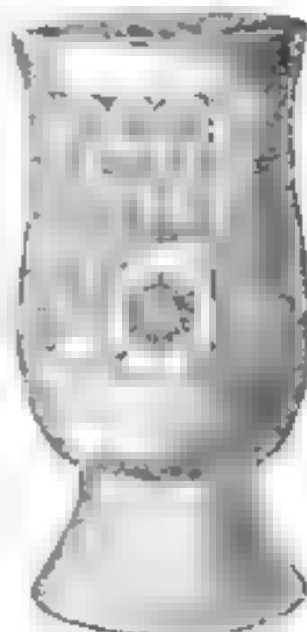


PLATE 20. STONE TABLET.
 Found at the site of the Temple of Isis at Philae, Egypt. 1897. No.

[illegible]

SYMBOLIC MEANINGS OF THE CODES

It would be an excellent thing to dissect and analyze the Swastika material we have found to generalize and deduce from it a possible theory as to the origin, spread, and meaning of the Swastika and its related forms, and endeavor, by examination of its associated works, to discover if these were religious symbols or charms or mere decorations, and, following this, determine if possible whether the spread of these objects, whatever their meaning, was the result of migration, contact, or common action. Were they the result of single but independent operations of the human mind, or were they but duplicate inventions, the result of parallelism in human



Further investigation. He may therefore

[illegible]

and conquering giant, the North Wind, most powerful of all. It is shown on the body nearest the head, the seat of intelligence and conquering devices. The left arm covers the heart, it is the East Wind, coming from the seat of life and love. The foot is the ruling, burning South

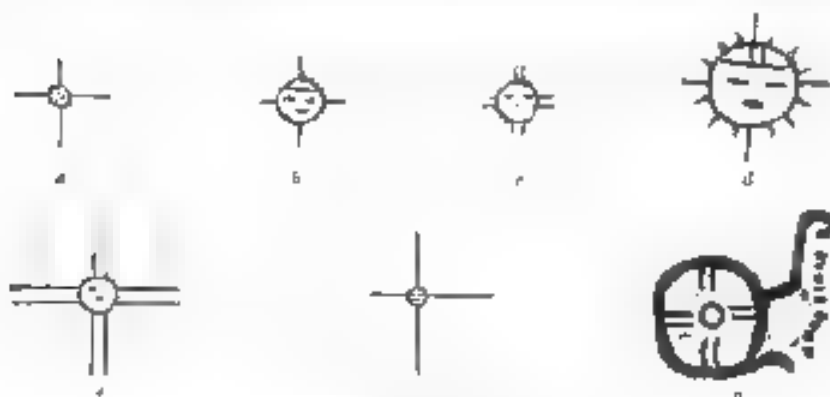


Fig. 315

THE SWASTIKA, REPRESENTED WITH THE CRUCIAL
AND SYMBOLIC

THE SWASTIKA, REPRESENTED WITH THE CRUCIAL
AND SYMBOLIC

Wind, radiating as it is with the seat of very passion. The right arm is the gentle West Wind, blowing from the spirit and covering the lungs, from which the breath at last goes out gently but into unknown night. The center of the cross has a circle in front, moved by the conducting influences of gods and words.

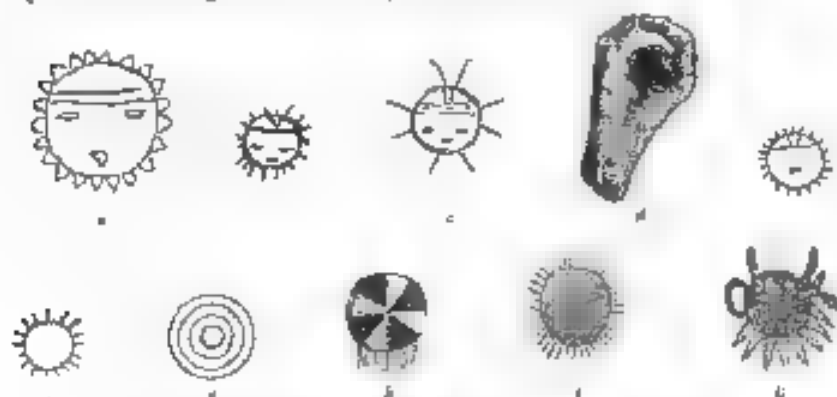


Fig. 316

THE SWASTIKA, REPRESENTED WITH THE CRUCIAL
AND SYMBOLIC

Rev. John McLain, in his work on the "Blackfoot Sun Dance," says:

On the center pole of the sun dance of the Blackfoot is a bundle of sun-dried wood taken from the arch tree which is placed on the center of the sun dance. This was an important symbol, especially concerning the four winds.

Names of these are mentioned in the following table. The
 first column contains the names of the symbols, the second
 column contains the names of the symbols in the original
 language, and the third column contains the names of the
 symbols in the English language. The symbols are arranged
 in the order in which they are mentioned in the text.
 The break is displayed in the interior.



The symbols are arranged in the order in which they are
 mentioned in the text. The first column contains the
 names of the symbols, the second column contains the
 names of the symbols in the original language, and the
 third column contains the names of the symbols in the
 English language. The symbols are arranged in the
 order in which they are mentioned in the text. The
 first column contains the names of the symbols, the
 second column contains the names of the symbols in the
 original language, and the third column contains the
 names of the symbols in the English language. The
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 names of the symbols, the second column contains the
 names of the symbols in the original language, and the
 third column contains the names of the symbols in the
 English language. The symbols are arranged in the
 order in which they are mentioned in the text.



Shaman's spirit.—Among the Kintézanut
 and Innuit tribes, a cross placed on the
 being under the control of the
 shaman to execute his wishes.



One of the cross among the North
 American tribes, which the
 shaman uses to execute his wishes.

* English Ann. Rep. Bureau of Ethnology p. 333

the three triangles tended to repress the animal. In the fourth here are four triangles and the body does not belong to the animal but to the form of a cross. In the fifth two of the enclosing triangles are omitted and the sign is produced by the remaining dots. In the sixth the dots are placed within the arms of the cross, the triangles becoming mere interferences, and in the seventh the dots form the base between the arms of the cross. This series may be illustrated by other examples, thus showing by



Fig. 120.

SEVERAL OF STAGES OF EVOLUTION SHOW AN INTEREST IN SIMPLIFICATION.
 (Antiqua.)

After several papers of the Bureau of Ethnology.

went down steps, and the transformation is complete.

We learn by the series of steps illustrated in the annexed cuts that the gutter radical, after passing through all its influences, assumes our Christian cross and merges imperceptibly into these classic devices.

Professor Holmes's theory of the evolution of the cross from the gutter radical is, however, as Obiquet is opposed to that of Professor Good

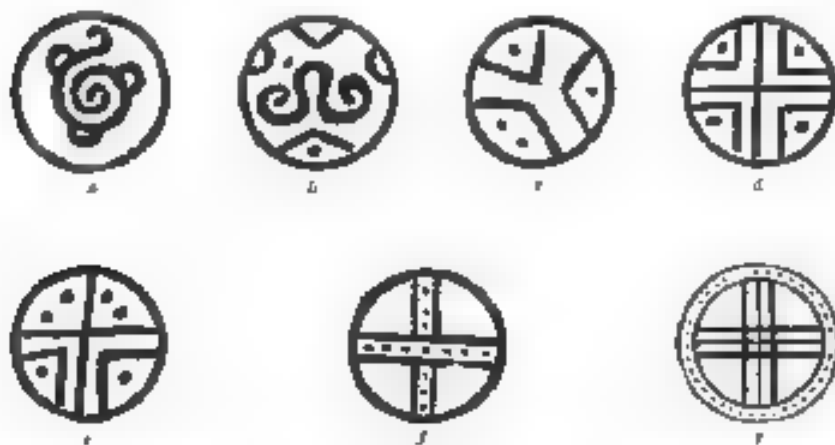


Fig. 121.

SEVERAL STAGES OF THE SIMPLIFICATION OF ANIMAL CHARACTER, BEGINNING WITH THE GUTTER RADICAL AND ENDING WITH THE CROSS. (Antiqua.)

(Antiqua.)

After several papers of the Bureau of Ethnology.

year who, in his "Grammar of the Lotus" ascribes an origin of the cross to the lotus and locates it in Egypt. I find what is now known to be an "interplanetary" I admit my want of knowledge of the subject under a sensation, and leave the question to those geometers.

THE HISTORY OF THE CROSS INTO AMERICA

It is interesting to find that the cross is not only a symbol of the Christian religion, but also a symbol of the American people. The cross is a symbol of the American people, and the American people are the cross. The cross is a symbol of the American people, and the American people are the cross. The cross is a symbol of the American people, and the American people are the cross.

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Marquette [comments Dr. Hoffman] was a Frenchman, and the cross is a symbol of the American people. The cross is a symbol of the American people, and the American people are the cross. The cross is a symbol of the American people, and the American people are the cross. The cross is a symbol of the American people, and the American people are the cross.

The cross is a symbol of the American people, and the American people are the cross. The cross is a symbol of the American people, and the American people are the cross. The cross is a symbol of the American people, and the American people are the cross. The cross is a symbol of the American people, and the American people are the cross. The cross is a symbol of the American people, and the American people are the cross.

[illegible]

【例 1】某企业 2013 年 12 月 31 日结账前有关账户的余额如下:

of one (series), that would admit a European derivation

Detecting the origin of the object.

dation and inadmissibility.

DECORATIVE FORMS NOT OF THE CROSS, BUT ALLIED TO THE SWASTIKA

COLOR STAMPS FROM MEXICO AND YUCATAN

The aborigines of Mexico and Central and South America employed for decorative stamping a form being not dissimilar to the swastika.



Fig. 8



Fig. 9



Fig. 10



Fig. 11



Fig. 12



Fig. 13

FIG. 14. A. M. DE LAPEYRE. B. DE LAPEYRE. C. DE LAPEYRE. D. DE LAPEYRE.

The following are the principal forms of the swastika as found in the collections of the National Museum, and are arranged in the order of their discovery.

REPORT TO A GOVT OR ORGANIZED BODY

of a Christian denomination.

1. The first of these is the fact that the majority of the population of the United States is now living in urban areas. This is a result of the process of urbanization, which has been going on since the beginning of the 20th century. The process of urbanization is the movement of people from rural areas to urban areas. This is a result of the fact that urban areas offer more opportunities for employment and education than rural areas. The process of urbanization has led to the growth of large cities and the decline of small towns. This has led to the concentration of the population in a few large urban areas.

symbol more or less of this character.

religions idea.

idea or of any sect or organization.

[illegible]

dismiss (such) the notion of a symbol as being the product of what is at first a
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show that the position is
 Bureau of Ethnology, manu-
 nation of the religious sign⁸

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It is not possible to say that the symbol is the result of human
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Brunton

It is not possible to say that the symbol is the result of human
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is not negative.

It is not possible to say that the symbol is the result of human
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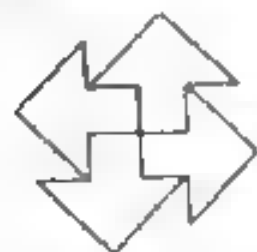
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 2. 在 1990 年 1 月 1 日以后， α 和 β 的取值范围是：
 $\alpha \in [0, 2\pi)$ ， $\beta \in [0, 2\pi)$ 。
 3. 在 1990 年 1 月 1 日以后， α 和 β 的取值范围是：
 $\alpha \in [0, 2\pi)$ ， $\beta \in [0, 2\pi)$ 。
 4. 在 1990 年 1 月 1 日以后， α 和 β 的取值范围是：
 $\alpha \in [0, 2\pi)$ ， $\beta \in [0, 2\pi)$ 。
 5. 在 1990 年 1 月 1 日以后， α 和 β 的取值范围是：
 $\alpha \in [0, 2\pi)$ ， $\beta \in [0, 2\pi)$ 。
 6. 在 1990 年 1 月 1 日以后， α 和 β 的取值范围是：
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 7. 在 1990 年 1 月 1 日以后， α 和 β 的取值范围是：
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 $\alpha \in [0, 2\pi)$ ， $\beta \in [0, 2\pi)$ 。
 9. 在 1990 年 1 月 1 日以后， α 和 β 的取值范围是：
 $\alpha \in [0, 2\pi)$ ， $\beta \in [0, 2\pi)$ 。
 10. 在 1990 年 1 月 1 日以后， α 和 β 的取值范围是：
 $\alpha \in [0, 2\pi)$ ， $\beta \in [0, 2\pi)$ 。

The first of these is the fact that the system is not a simple one. It is a complex system, and the complexity is not only in the number of components, but also in the way they are connected. The second is that the system is not a simple one. It is a complex system, and the complexity is not only in the number of components, but also in the way they are connected. The third is that the system is not a simple one. It is a complex system, and the complexity is not only in the number of components, but also in the way they are connected.

drawn by the artist. The following table will be found to be correct in all cases. The number of the design is given in the margin. The number of the design is given in the margin. The number of the design is given in the margin.

The number of the design is given in the margin. The number of the design is given in the margin. The number of the design is given in the margin.

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The number of the design is given in the margin. The number of the design is given in the margin. The number of the design is given in the margin.

London, I found also figures of the Swastika. The number of the design is given in the margin. The number of the design is given in the margin. The number of the design is given in the margin.

one or more Swastikas woven in their caps or covers.

The number of the design is given in the margin. The number of the design is given in the margin. The number of the design is given in the margin.

The number of the design is given in the margin. The number of the design is given in the margin. The number of the design is given in the margin.

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The number of the design is given in the margin. The number of the design is given in the margin. The number of the design is given in the margin.

The 1990s witnessed a dramatic increase in the number of people who were able to travel to and from their home countries. This was due to a combination of factors, including the end of the Cold War, the collapse of the Soviet Union, and the rise of globalization. As a result, the world became a more interconnected place, and people were able to move more freely than ever before. This led to a significant increase in the number of people who were able to travel to and from their home countries, and it also led to a significant increase in the number of people who were able to travel to and from their home countries.

[illegible]

The first of these is the fact that the swastika has been used by many different peoples and nations in many different parts of the world. It has been found in the most ancient of times, and it has been used by the most civilized of nations. It has been used by the most barbarous of peoples, and it has been used by the most refined of nations. It has been used by the most ignorant of men, and it has been used by the most enlightened of men. It has been used by the most wicked of men, and it has been used by the most virtuous of men. It has been used by the most cruel of men, and it has been used by the most merciful of men. It has been used by the most selfish of men, and it has been used by the most unselfish of men. It has been used by the most ignorant of men, and it has been used by the most enlightened of men. It has been used by the most wicked of men, and it has been used by the most virtuous of men. It has been used by the most cruel of men, and it has been used by the most merciful of men. It has been used by the most selfish of men, and it has been used by the most unselfish of men.

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The third of these is the fact that the swastika has been used by many different peoples and nations in many different parts of the world. It has been found in the most ancient of times, and it has been used by the most civilized of nations. It has been used by the most barbarous of peoples, and it has been used by the most refined of nations. It has been used by the most ignorant of men, and it has been used by the most enlightened of men. It has been used by the most wicked of men, and it has been used by the most virtuous of men. It has been used by the most cruel of men, and it has been used by the most merciful of men. It has been used by the most selfish of men, and it has been used by the most unselfish of men.

have been the same. The fact is that the swastika is a symbol of good luck and happiness, and it has been used by many people in many different ways. In the past, it was often used by the ancient Greeks and Romans, and it was also used by the ancient Egyptians and the ancient Indians. In the Middle Ages, it was used by the Christians, and it was also used by the Muslims. In the modern world, it has been used by many different groups of people, and it has become a symbol of many different things.

One of the most common uses of the swastika is as a symbol of good luck and happiness. This is because the swastika is a symbol of good fortune, and it is often used by people who want to bring good luck to themselves or to others. For example, many people use the swastika as a talisman, or as a charm, to bring good luck to themselves. They also use it as a symbol of good fortune, and they often use it to decorate their homes or their cars.

Another common use of the swastika is as a symbol of good health and well-being. This is because the swastika is a symbol of good health, and it is often used by people who want to bring good health to themselves or to others. For example, many people use the swastika as a symbol of good health, and they often use it to decorate their homes or their cars. They also use it as a symbol of good health, and they often use it to decorate their homes or their cars.

The swastika is also used by many different groups of people as a symbol of their religion or their culture. For example, the Hindus use the swastika as a symbol of their religion, and the Buddhists use it as a symbol of their religion. The Sikhs also use the swastika as a symbol of their religion, and the Jains use it as a symbol of their religion.

In the modern world, the swastika has become a symbol of many different things, and it has been used by many different groups of people. It has become a symbol of good luck and happiness, and it has become a symbol of good health and well-being. It has also become a symbol of many different religions and cultures, and it has become a symbol of many different things.

The swastika is a symbol of good luck and happiness, and it has been used by many people in many different ways. In the past, it was often used by the ancient Greeks and Romans, and it was also used by the ancient Egyptians and the ancient Indians. In the Middle Ages, it was used by the Christians, and it was also used by the Muslims. In the modern world, it has been used by many different groups of people, and it has become a symbol of many different things.

One of the most common uses of the swastika is as a symbol of good luck and happiness. This is because the swastika is a symbol of good fortune, and it is often used by people who want to bring good luck to themselves or to others. For example, many people use the swastika as a talisman, or as a charm, to bring good luck to themselves. They also use it as a symbol of good fortune, and they often use it to decorate their homes or their cars.

Another common use of the swastika is as a symbol of good health and well-being. This is because the swastika is a symbol of good health, and it is often used by people who want to bring good health to themselves or to others. For example, many people use the swastika as a symbol of good health, and they often use it to decorate their homes or their cars. They also use it as a symbol of good health, and they often use it to decorate their homes or their cars.

The swastika is also used by many different groups of people as a symbol of their religion or their culture. For example, the Hindus use the swastika as a symbol of their religion, and the Buddhists use it as a symbol of their religion. The Sikhs also use the swastika as a symbol of their religion, and the Jains use it as a symbol of their religion.

In the modern world, the swastika has become a symbol of many different things, and it has been used by many different groups of people. It has become a symbol of good luck and happiness, and it has become a symbol of good health and well-being. It has also become a symbol of many different religions and cultures, and it has become a symbol of many different things.

The swastika is a symbol of good luck and happiness, and it has been used by many people in many different ways. In the past, it was often used by the ancient Greeks and Romans, and it was also used by the ancient Egyptians and the ancient Indians. In the Middle Ages, it was used by the Christians, and it was also used by the Muslims. In the modern world, it has been used by many different groups of people, and it has become a symbol of many different things.

One of the most common uses of the swastika is as a symbol of good luck and happiness. This is because the swastika is a symbol of good fortune, and it is often used by people who want to bring good luck to themselves or to others. For example, many people use the swastika as a talisman, or as a charm, to bring good luck to themselves. They also use it as a symbol of good fortune, and they often use it to decorate their homes or their cars.

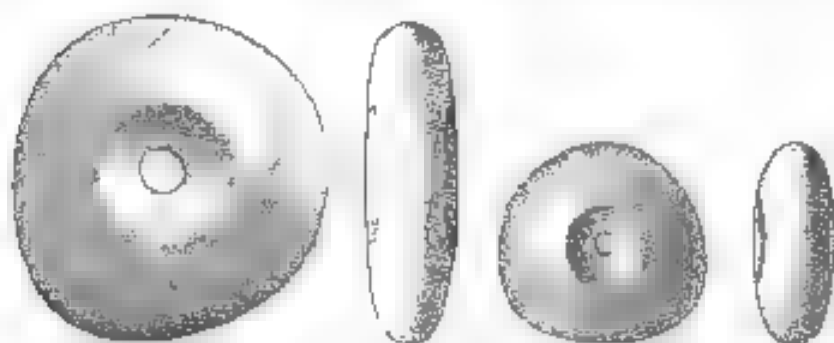
Another common use of the swastika is as a symbol of good health and well-being. This is because the swastika is a symbol of good health, and it is often used by people who want to bring good health to themselves or to others. For example, many people use the swastika as a symbol of good health, and they often use it to decorate their homes or their cars. They also use it as a symbol of good health, and they often use it to decorate their homes or their cars.

The swastika is also used by many different groups of people as a symbol of their religion or their culture. For example, the Hindus use the swastika as a symbol of their religion, and the Buddhists use it as a symbol of their religion. The Sikhs also use the swastika as a symbol of their religion, and the Jains use it as a symbol of their religion.

In the modern world, the swastika has become a symbol of many different things, and it has been used by many different groups of people. It has become a symbol of good luck and happiness, and it has become a symbol of good health and well-being. It has also become a symbol of many different religions and cultures, and it has become a symbol of many different things.

FIGURE.

See Iceland—Lake dwellings. Figs. 345 and 346 show some spindle whorls from prehistoric Swiss lake dwellings. These are in the U. S. National Museum and with them are dozens of others of the same kind.



FIGS. 345 AND 346
OF THE SPINDLE WHORLS
OF STONE.
Swiss lake dwellings.
U. S. National Museum.

and style from all other parts of Europe. Fig. 347 shows a stone spindle whorl from Lake Sweden. It is in the U. S. National Museum and was contributed by Professor Janson. Figs. 348, 349, and 350 represent terra-cotta spindle whorls from the Swiss lakes. These specimens were

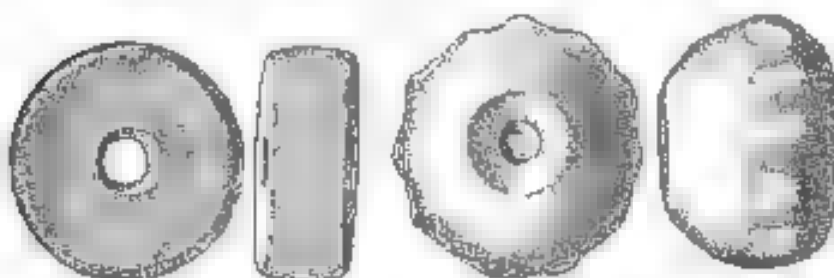


FIG. 347
STONE SPINDLE WHORL
Swedish
Lake Sweden.
U. S. National Museum.

FIG. 348
TERRA-COTTA SPINDLE WHORL
Swedish lake dwellings.
U. S. National Museum.

selected to show the different patterns, to illustrate their weakness instead of their likeness, to give an understanding of the various kinds of whorls rather than that they were all one and the same and a fact which should be kept in mind during this argument.

Italy. Figs. 351, 352, and 353 show terra cotta spider wheels from Orvieto, 1 day's journey north from Rome. Figs. 354 and 355 represent

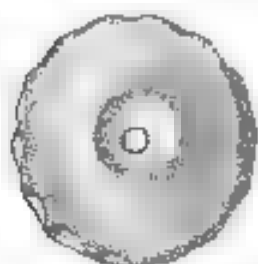


Fig. 346.

TERRA COTTA SPIDER WHEEL.
Neolithic or Bronze Age.
From Lake dwellings
at V. (near) S. M. V.

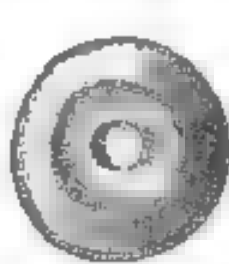
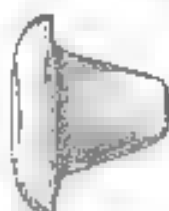


Fig. 350.

TERRA COTTA SPIDER WHEEL.
Swiss lake dwellings
of the (near) S. M. V.



Fig. 347 shows a terra cotta spider wheel from Orvieto, Italy, 63 miles north from Rome. As remarked above, they have been used to represent the different kinds.



Figs. 354 and 355.

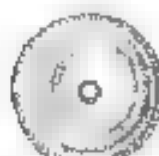
TERRA COTTA SPIDER WHEEL.
Orvieto, Italy.
of the (near) S. M. V.

There are thousands of these wheels found in Italy. In the Archaeological Exposition at

Turin, 1882, the number was so great that they were thrown about the columns, thereby proving a piece of storage as well as a piece of display.

Wittenburg.—Dr Charles Ran proceeded far, and there is now in the U. S. National Museum a spider wheel of the same kind which has been in use for spinning from 1860 to 1870, and which

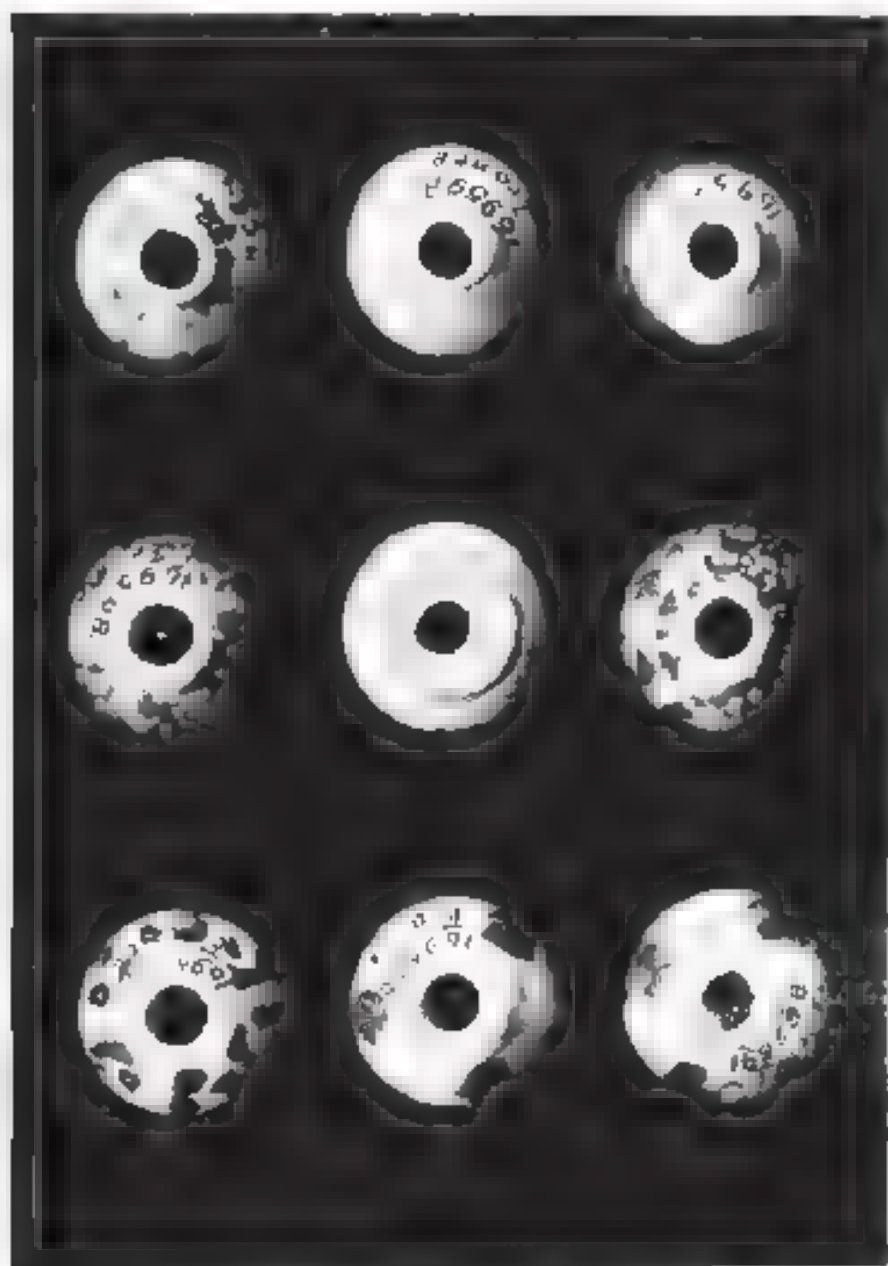
he obtained in Wittenburg, Germany, from the woman who made it. It is the same that has seen the French and the Italian spin-



Figs. 356 and 357.

TERRA COTTA SPIDER WHEEL.
Wittenburg, 1860.
of the (near) S. M. V.

ing near thread in the same way and then took a photograph of one at the bureau of Post Avenue. More than 100 of these wheels were found.



SPINDLE-WHORLS OF NO. 1117 F. 1112, FROM SOUTHERN FRANCE

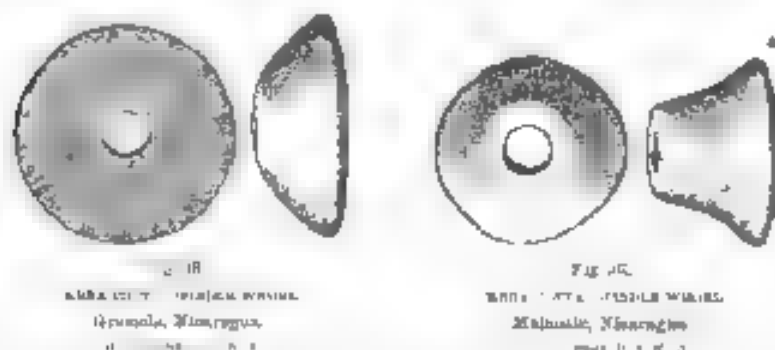
See also Plate 22, 23, 24



NAVAJO WOMAN USING SPINDLE AND WHORL

Dr. Washington Matthews. Thirtieth Annual Report of the Bureau of Ethnology 1907: PL. XLXXXV

blanc form to the earliest whorls found by Sch. et al. on the site of Troy on the all of Hissarlik. Both these were collected by Dr. J. F. Branner, and are in the U. S. National Museum. Fig. 361 shows a specimen from Canagaja, Nicaragua. It is of the common shape of the European prehistoric spindle wheel. Its flat surface is decorated



with a series of lines on the sides, the quarters of which are filled with black marks. Fig. 362 shows a similar spindle wheel from Canagaja, Nicaragua. It is cone-shaped, both these specimens were collected by Dr. Carl Plaut.

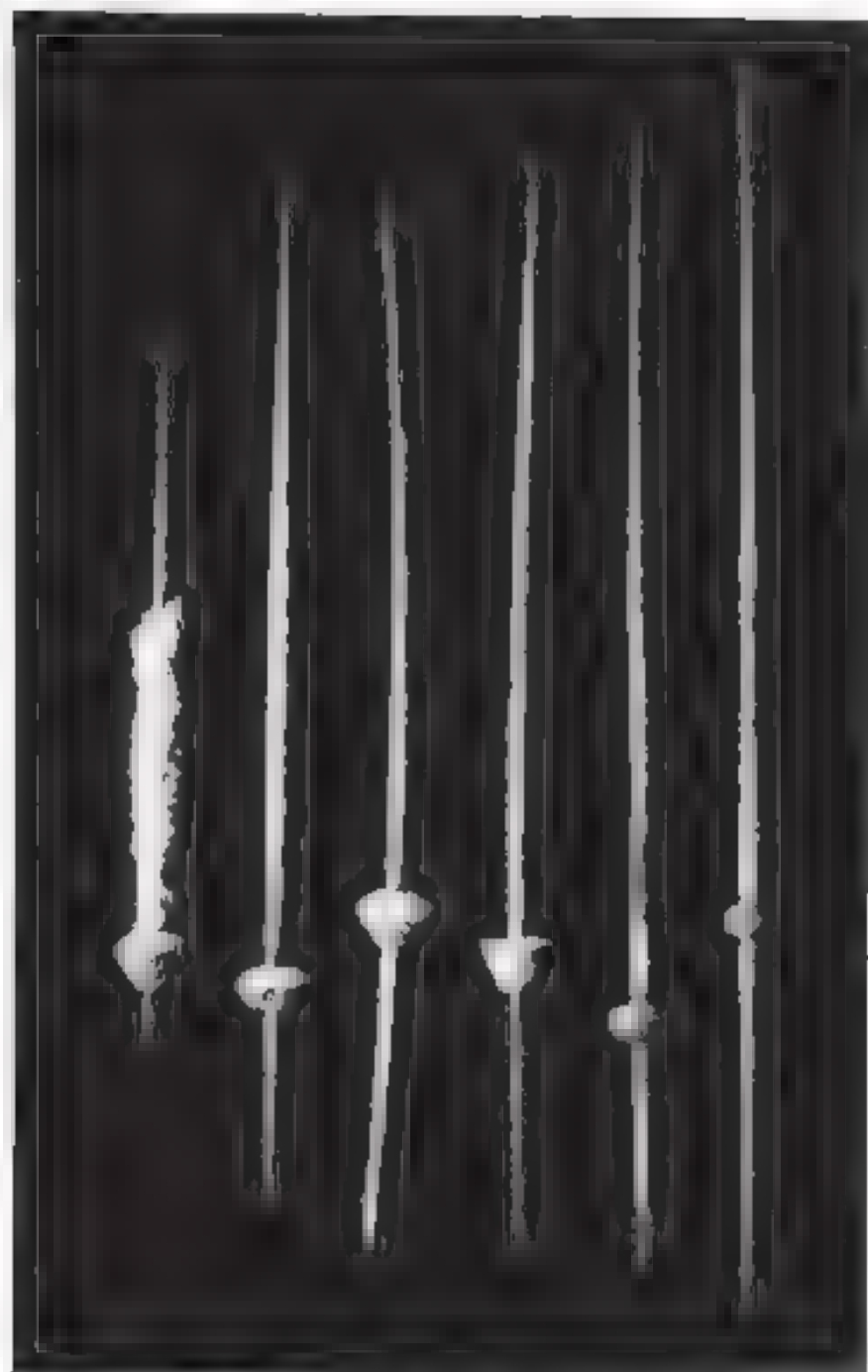
SOUTH AMERICA.

Figures 363, 364, and 365 show terra-cotta spindle wheels from Canagaja. The most common variety is South American and among the commonest. They are conical, and are of a size, with or without the handle, that are the pottery of that country.

Colombia. Fig. 366 shows a cone-shaped spindle wheel from Manizales, Colombia, South America. It has a star-shaped design on the face and a three line zigzag or chevron pattern.

Peru.—Plate 23 represents a series of spindle wheels from Peru. They were furnished to the U. S. National Museum by I. V. Norton, of Plainville, N. Y. The wheels were originally considered to be of a different material, and were without further description. The specimens were of a different shape, as is evident. The specimens, as well as wheels, are extremely small. Some of the wheels are decorated by the use of a series of lines, and many of the specimens are decorated by the use of a series of lines, and chevron. These are the only wheels from Peru in the U. S. National Museum, though it possesses an extensive series of the specimens, several of which still have the thread wrapped upon them.

There are certain distinguishing peculiarities to be remarked when



SERIES OF ABORIGINAL SPEARS AND WHORLS FROM PERU
(See No. 17314, 17315, 17316, 17317, 17318, 17319, 17320)

comparing the spindle whorls from the Western Hemisphere with those from the Eastern Hemisphere. There is great variety in size, form, and decoration in the American material, but the European whorls, as a series of European whorls from any given locality, would afford a fair representation



Fig. 26

SPINDLE WHORL OF GULF COAST OF MEXICO
MUSEUM OF AMERICAN ARTS

Chiriqui

South American Expedition of Dr. H. H. Schubert
Fig. 26



Fig. 27

SPINDLE WHORL OF GULF COAST OF MEXICO
MUSEUM OF AMERICAN ARTS

Idzapa

South American Expedition of Dr. H. H. Schubert
Fig. 27

of the base from almost every locality. Here is different with the American specimens. Each section of America has a different style but very different from the European specimens and different from those of neighboring sections. Among the eight thousand whorls found by Dr. Schuchert on the Gulf of Mexico there is

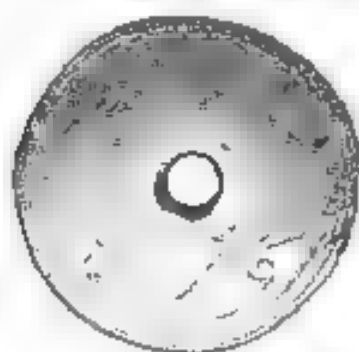


Fig. 28

SPINDLE WHORL OF GULF COAST OF MEXICO

Museo Nacional de Historia Natural

at Mexico City



scarcely one so large as those here shown from Yucatan. In the latter land there were only a few as small as one present of the series from Peru. The difference in size and shape in the spindle whorls has already been noted. The ornamentation is also peculiar in that it is not a standard type common to the present but it

1. The first part of the document is a letter from the President of the United States to the Congress, dated January 1, 1861. It is a formal address, and it begins with the words "My Countrymen," which is a traditional way of addressing the people in a formal document. The letter is written in a formal, dignified style, and it is signed by Abraham Lincoln.

... the fact remains that the wheels of the two men

$$\Delta \quad \Gamma \quad \delta \quad \epsilon \quad \zeta \quad \eta \quad \theta \quad \iota \quad \kappa \quad \lambda \quad \mu \quad \nu \quad \xi \quad \omicron \quad \pi \quad \rho \quad \sigma \quad \tau \quad \upsilon \quad \phi \quad \chi \quad \psi \quad \omega$$

(The following information was obtained from the records of the Department of Health, Education and Welfare, Washington, D.C., Office of the Assistant Secretary for Health.)

(continued)

Table 1. The number of cases of *Salmonella* infection in the United Kingdom, 1980-1990

[illegible]

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

[illegible][illegible]

(continued)

 Springer

1. *Chlorophyll a* (Chl *a*) and *Chlorophyll b* (Chl *b*) were determined using the method of Lichtenthaler and Whistler (1987). The total chlorophyll content was determined using the method of Lichtenthaler and Whistler (1987). The total chlorophyll content was determined using the method of Lichtenthaler and Whistler (1987).

4 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1

$\frac{1}{2} \cdot 4 = 2$ $2 \cdot 2 = 4$ $4 \cdot 2 = 8$ $8 \cdot 2 = 16$ $16 \cdot 2 = 32$ $32 \cdot 2 = 64$ $64 \cdot 2 = 128$ $128 \cdot 2 = 256$ $256 \cdot 2 = 512$ $512 \cdot 2 = 1024$ $1024 \cdot 2 = 2048$ $2048 \cdot 2 = 4096$ $4096 \cdot 2 = 8192$ $8192 \cdot 2 = 16384$ $16384 \cdot 2 = 32768$ $32768 \cdot 2 = 65536$ $65536 \cdot 2 = 131072$ $131072 \cdot 2 = 262144$ $262144 \cdot 2 = 524288$ $524288 \cdot 2 = 1048576$ $1048576 \cdot 2 = 2097152$ $2097152 \cdot 2 = 4194304$ $4194304 \cdot 2 = 8388608$ $8388608 \cdot 2 = 16777216$ $16777216 \cdot 2 = 33554432$ $33554432 \cdot 2 = 67108864$ $67108864 \cdot 2 = 134217728$ $134217728 \cdot 2 = 268435456$ $268435456 \cdot 2 = 536870912$ $536870912 \cdot 2 = 1073741824$ $1073741824 \cdot 2 = 2147483648$ $2147483648 \cdot 2 = 4294967296$ $4294967296 \cdot 2 = 8589934592$ $8589934592 \cdot 2 = 17179869184$ $17179869184 \cdot 2 = 34359738368$ $34359738368 \cdot 2 = 68719476736$ $68719476736 \cdot 2 = 137438953472$ $137438953472 \cdot 2 = 274877906944$ $274877906944 \cdot 2 = 549755813888$ $549755813888 \cdot 2 = 1099511627776$ $1099511627776 \cdot 2 = 2199023255552$ $2199023255552 \cdot 2 = 4398046511104$ $4398046511104 \cdot 2 = 8796093022208$ $8796093022208 \cdot 2 = 17592186044416$ $17592186044416 \cdot 2 = 35184372088832$ $35184372088832 \cdot 2 = 70368744177664$ $70368744177664 \cdot 2 = 140737488355328$ $140737488355328 \cdot 2 = 281474976710656$ $281474976710656 \cdot 2 = 562949953421312$ $562949953421312 \cdot 2 = 1125899906842624$ $1125899906842624 \cdot 2 = 2251799813685248$ $2251799813685248 \cdot 2 = 4503599627370496$ $4503599627370496 \cdot 2 = 9007199254740992$ $9007199254740992 \cdot 2 = 18014398509481984$ $18014398509481984 \cdot 2 = 36028797018963968$ $36028797018963968 \cdot 2 = 72057594037927936$ $72057594037927936 \cdot 2 = 144115188075855872$ $144115188075855872 \cdot 2 = 288230376151711744$ $288230376151711744 \cdot 2 = 576460752303423488$ $576460752303423488 \cdot 2 = 1152921504606846976$ $1152921504606846976 \cdot 2 = 2305843009213693952$ $2305843009213693952 \cdot 2 = 4611686018427387904$ $4611686018427387904 \cdot 2 = 9223372036854775808$ $9223372036854775808 \cdot 2 = 18446744073709551616$ $18446744073709551616 \cdot 2 = 36893488147419103232$ $36893488147419103232 \cdot 2 = 73786976294838206464$ $73786976294838206464 \cdot 2 = 147573952589676412928$ $147573952589676412928 \cdot 2 = 295147905179352825856$ $295147905179352825856 \cdot 2 = 590295810358705651712$ $590295810358705651712 \cdot 2 = 1180591620717411303424$ $1180591620717411303424 \cdot 2 = 2361183241434822606848$ $2361183241434822606848 \cdot 2 = 4722366482869645213696$ $4722366482869645213696 \cdot 2 = 9444732965739290427392$ $9444732965739290427392 \cdot 2 = 18889465931478580854784$ $18889465931478580854784 \cdot 2 = 37778931862957161709568$ $37778931862957161709568 \cdot 2 = 75557863725914323419136$ $75557863725914323419136 \cdot 2 = 151115727451828646838272$ $151115727451828646838272 \cdot 2 = 302231454903657293676544$ $302231454903657293676544 \cdot 2 = 604462909807314587353088$ $604462909807314587353088 \cdot 2 = 1208925819614629174706176$ $1208925819614629174706176 \cdot 2 = 2417851639229258349412352$ $2417851639229258349412352 \cdot 2 = 4835703278458516698824704$ $4835703278458516698824704 \cdot 2 = 9671406556917033397649408$ $9671406556917033397649408 \cdot 2 = 19342813113834066795298816$ $19342813113834066795298816 \cdot 2 = 38685626227668133590597632$ $38685626227668133590597632 \cdot 2 = 77371252455336267181195264$ $77371252455336267181195264 \cdot 2 = 154742504910672534362390528$ $154742504910672534362390528 \cdot 2 = 309485009821345068724781056$ $309485009821345068724781056 \cdot 2 = 618970019642690137449562112$ $618970019642690137449562112 \cdot 2 = 1237940039285380274899124224$ $1237940039285380274899124224 \cdot 2 = 2475880078570760549798248448$ $2475880078570760549798248448 \cdot 2 = 4951760157141521099596496896$ $4951760157141521099596496896 \cdot 2 = 9903520314283042199192993792$ $9903520314283042199192993792 \cdot 2 = 19807040628566084398385987584$ 198070406285660

[illegible][illegible]

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

[illegible]
$$d^2 = 1 + 5 + 7 + 9 + \dots + 41 = 841 = 29^2$$
[illegible]

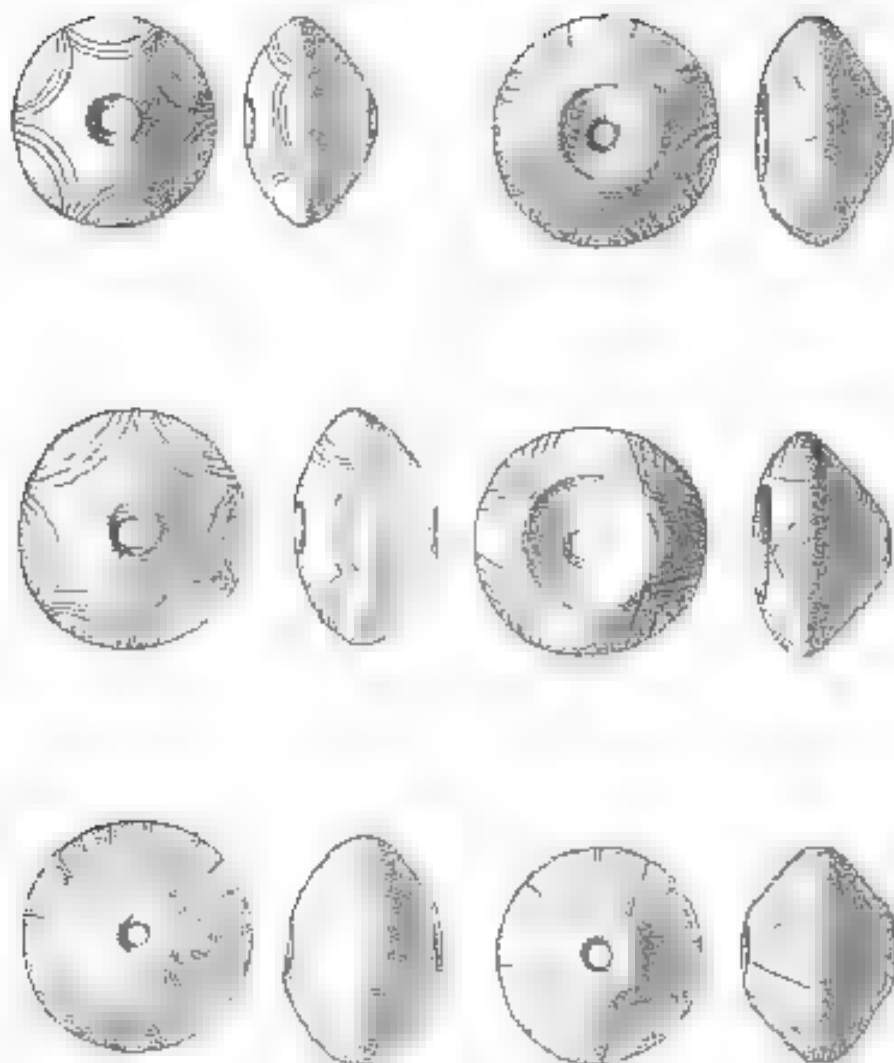
Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains. The concentration of the *Agrobacterium* suspension was 10⁶ cells/ml (a), 10⁷ cells/ml (b), 10⁸ cells/ml (c), and 10⁹ cells/ml (d). The concentration of the *Agrobacterium* suspension was 10⁶ cells/ml (a), 10⁷ cells/ml (b), 10⁸ cells/ml (c), and 10⁹ cells/ml (d).

1. *Journal of the American Medical Association*, 1997; 277: 1033-1036.

1. The first group of people who are not in the labor force are those who are not in the labor force for any reason. This group is the largest and is made up of people who are not in the labor force for any reason. This group is the largest and is made up of people who are not in the labor force for any reason.

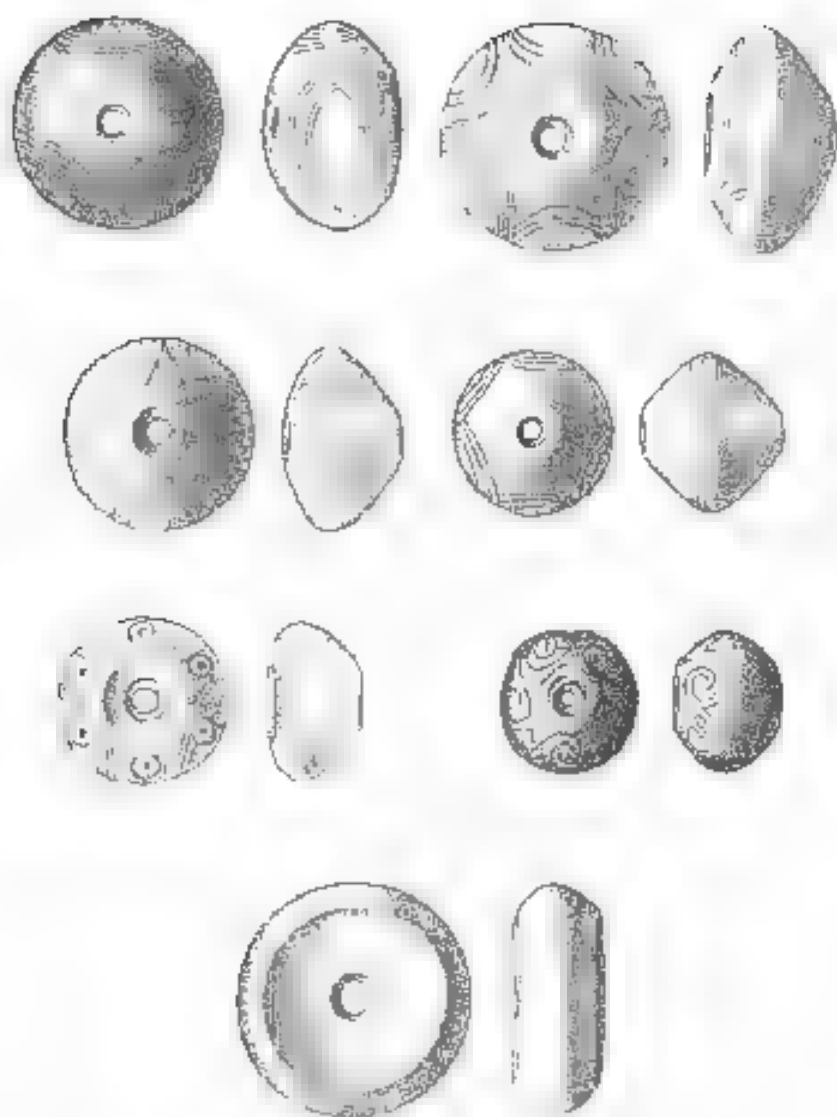
... ..

grateful for you toward them



SELECTED SPECIMENS OF SPADE-WHORLS FROM THE THIRD, FOURTH AND FIFTH CITIES
OF TROY

C. S. HOLMES, 1914



SELECTED SPECIMENS OF SPINDLE-WHORLS FROM THE THIRD, FOURTH, AND FIFTH CITIES OF TEYO.

U. S. NATIONAL MUSEUM.

HOBBINS

FIG. 367.

We have already seen how no increase in the number of correspondences between objects from the east requires increases the weight of our evidence in favor of contact or common origin between the peoples. If, then, we find a good correspondence here for objects on which there

is to be wound, as well as the spindle whorls with which it is made, had been in use during prehistoric times in the two hemispheres, it would add to the evidence of contact or common origin. The U

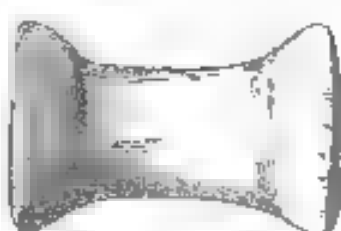


Fig. 367.

SPINDLE WHORL FOR WINDING THREAD (?)

Type Villanova

Villanova, Italy

Cat. No. 18875, U. S. N. M.

S. National Museum possesses a series of these hobblers, as they are believed to have been, ranging from large to small, comprising about one dozen specimens from Italy one from Corsica and two

others from Bologna, in which places many prehistoric spindle whorls have been found (figs. 367 and 368). These are of the type Villanova. The end as well as the side view is represented. The former is one of the largest, the latter of middle size, with others smaller forming a graduating series. The latter is engraved on the



Fig. 368.

SPINDLE WHORL FOR WINDING THREAD

Type Villanova

Villanova, Italy

Cat. No. 18875, U. S. N. M.

end by dotted lines a three arm cross arranged in the form of a Greek cross. A similar whorl from Bologna bears the sign of the Swastika on its end. Fig. 369. It was found by Count Gozzadini and forms part of his collection in Bologna.

UNITED STATES

The three following figures represent clay and stone objects from the State of Kentucky. Fig. 369 shows a hollow elaborately decorated, from a mound near Maysville, Ky. It has a hole drilled through

radius, through the center. The rim shows a cross of the Greek form, of this hole to the center of the cross. Fig. 370 shows a similar object from Lexington, Kentucky, the Kentucky University. It

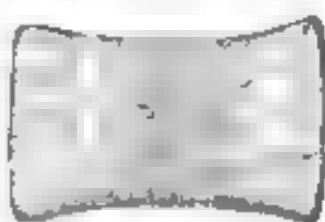


Fig. 369.

FIG. 369. SPINDLE WHORL, KENTUCKY UNIVERSITY.

is of fine-grained sandstone, is drilled ion, radially through the center and decorated as shown. The end view shows a series of concentric circles with rows of dots in the intervals. Fig. 371 shows a similar object from Lewis

County, Ky. It is also made of sandstone, and is decorated with a series of concentric circles and dots. The dots are arranged in rows, and the circles are arranged in rows. The dots are arranged in rows, and the circles are arranged in rows. The dots are arranged in rows, and the circles are arranged in rows.

size as they go outward, the larger the circles, the smaller the dots. The dots are arranged in rows, and the circles are arranged in rows. The dots are arranged in rows, and the circles are arranged in rows. The dots are arranged in rows, and the circles are arranged in rows. The dots are arranged in rows, and the circles are arranged in rows.

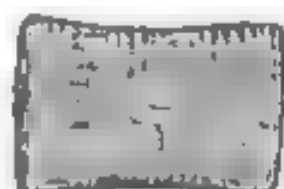
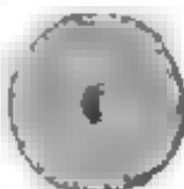


Fig. 371.

FIG. 371. SPINDLE WHORL, LEWIS COUNTY, KY.

County, Ky. It is also made of sandstone, and is decorated with a series of concentric circles and dots. The dots are arranged in rows, and the circles are arranged in rows. The dots are arranged in rows, and the circles are arranged in rows. The dots are arranged in rows, and the circles are arranged in rows.



Fig. 373.

FIG. 373. SPINDLE WHORL, KENTUCKY UNIVERSITY.

as it goes farther from the center, in the other direction, the circles are arranged in rows, and the dots are arranged in rows. The dots are arranged in rows, and the circles are arranged in rows. The dots are arranged in rows, and the circles are arranged in rows. The dots are arranged in rows, and the circles are arranged in rows.

been discovered. It is a byproduct of the pottery industry, and is used for spinning. It is a byproduct of the pottery industry, and is used for spinning. It is a byproduct of the pottery industry, and is used for spinning.

Thus we find some of the same objects which in Europe were made

[illegible]

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FREETOWN, AMERICA 44-101-1000. MAGAZINE OF
CULTURE.

The individuals who have been in a foreign country have not
 been seen since they have been in the country. In fact, the
 majority of the individuals who have been in the country are
 currently in the country and are not in the country. The
 individuals who have been in the country are not in the country.
 The individuals who have been in the country are not in the country.

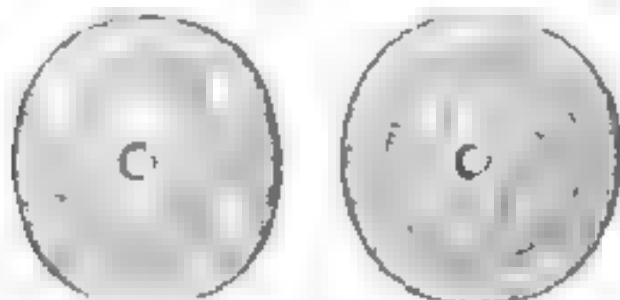


Fig. 172.

Source: *Michigan State Board of Education, Office of the Superintendent of Schools*.

in the summer of 1962, a North Vietnamese agent, who was at that time
known as "John" and who was known to the CIA as "John" and who was known to the CIA as "John"

Figure 1 shows the distribution of the population in Europe. Age, sex, and other factors are taken into account in the analysis. The results show that the population in Europe is distributed in a way that is consistent with the findings of the other studies. The population in Europe is distributed in a way that is consistent with the findings of the other studies.

(Continued from page 1)

The first step in the process is to identify the problem. This can be done by asking the following questions:

- What is the problem?
- Why is it a problem?
- Who is affected by the problem?
- How serious is the problem?

Once the problem has been identified, the next step is to determine the cause of the problem. This can be done by asking the following questions:

- What are the causes of the problem?
- Which cause is the most likely?
- How can we confirm the cause?

After the cause has been determined, the next step is to develop a solution. This can be done by asking the following questions:

- What solutions are available?
- Which solution is the best?
- How can we implement the solution?

Finally, the last step is to evaluate the results of the solution. This can be done by asking the following questions:

- Has the problem been solved?
- Are there any side effects?
- Can the solution be improved?

By following these steps, you can effectively solve any problem.

in the same way as the thread and cloth patterns. If, therefore, at least one specimen of the same material is found in both hemispheres, the same thread and cloth patterns are found in both hemispheres.



thread, to wind it on bobbins, and to weave it into fabrics, and whatever differences there may have been in pattern, thread, or cloth, they were finally and substantially the same art, and so are likely to have been the product of the same invention.

While it is not the intention to continue this examination among the prehistoric objects of the two hemispheres in order to show their similarity and thus prove migration, contact, or communication, yet it may be well to mention some of them, leaving the argument or proof to a future occasion.

The polished stone hatchets of the two hemispheres are substantially the same. There are differences of material, of course, for in each country the workman was obliged to use such material as was obtainable. There are differences in form between the polished stone hatchets of the two hemispheres, but so there are differences between different localities in the same hemisphere. Some hatchets are long, some short, some round, others flat, some have a pointed end, others a square or nearly square or unfinished end; some are large, others small. But all these differences are to be found equally well pronounced within each hemisphere.

Surasers have also been found in both hemispheres and in all ages. There are the same differences in material, form, and appearance as

in the case of the stone hatchets. The same differences in material, form, and appearance are to be found equally well pronounced within each hemisphere.

and while it may be rare in the Eastern Hemisphere, it is similar in these respects to thousands of pieces of prehistoric pottery in North America.

One of the great puzzles for archaeologists has been the prehistoric jade implements found in both countries. The raw material of which these were made has never been found in sufficient quantities to justify anyone in saying that it is indigenous to one hemisphere and not to the other. It may have been found in either hemisphere and exported to the other. But of this we have no evidence except the discovery in both of implements made of the same material. This material is dense and hard. It is extremely difficult to work, yet the operations of sawing, drilling, carving, and polishing appear to have been conducted in both hemispheres with such similarity as that the result is practically the same.

Prehistoric flint-chipping was also carried on in both hemispheres with such similarity of results, even when performing the most difficult and delicate operations, as to convince one that there must have been some communication between the two peoples who performed them.

The bow and arrow is fairly good evidence of prehistoric migration, because of the singularities of the form and the intricacies of the machinery, and because it is probably the earliest specimen of a machine of two separate parts, by the use of which a missile could be sent at a greater distance and with greater force than if thrown by hand. It is possible that the sling was invented as early as the bow and arrow, although both were prehistoric and their origin unknown.

The bow and arrow was the greatest of all human inventions—greatest in that it marked man's first step in mechanics, greatest in adaptation of means to the end, and as an invented machine it manifested in the most practical and marked manner the intellectual and reasoning power of man and his superiority over the brute creation. It, more than any other weapon, demonstrated the triumph of man over the brute, recognizing the limitations of human physical capacity in contests with the brute. With this machine, man first successfully made up for his deficiency in his contests with his enemies and the capture of his game. It is useless to ask anything of history about the beginnings of the bow and arrow; wherever history appears it records the prior existence, the almost universal presence, and the perfected use of the bow and arrow as a weapon. Yet this machine, so strange and curious, of such intricacy of manufacture and difficulty of successful performance, had with all its similarities and likenesses extended in prehistoric times almost throughout the then inhabited globe. It is useless to specify the time, for the bow and arrow existed earlier than any time of which we know; it is useless for us to specify places, for it was in use throughout the world wherever the world was occupied by neolithic man.

Imitative creature as was man, and slow and painful as were his steps in progress and in invention during his infancy on earth, when

he knew nothing and had everything yet to learn, it is sufficiently wonderful that he should have invented the bow and arrow as a projectile machine for his weapons; but it becomes doubly and trebly improbable that he should have made duplicate and independent inventions thereof in the different hemispheres. If we are to suppose this, why should we be restricted to a separate invention for each hemisphere, and why may we not suppose that he made a separate invention for each country or each distant tribe within the hemisphere? Yet we are met with the astonishing but, nevertheless, true proposition that throughout the entire world the bow and arrow existed in the early times mentioned, and was substantially the same machine, made in the same way, and serving the same purpose.

CONCLUSION.

The argument in this paper on the migration of arts or symbols, and with them of peoples in prehistoric times, is not intended to be exhaustive. At best it is only suggestive.

There is no direct evidence available by which the migration of symbols, arts, or peoples in prehistoric times can be proved, because the events are beyond the pale of history. Therefore we are, everybody is, driven to the secondary evidence of the similarity of conditions and products, and we can only subject these to our reason and at last determine the truth from the probabilities. In proportion as the probabilities of migration increase, it more nearly becomes a demonstrated fact. It appears to the author that the probabilities of the migration of the Swastika to America from the Old World is infinitely greater than that it was an independent invention.

The Swastika is found in America in such widely separated places, among such different civilizations, as much separated by time as by space, that if we have to depend on the theory of separate inventions to explain its introduction into America we must also depend upon the same theory for its introduction into the widely separated parts of America. The Swastika of the ancient mound builders of Ohio and Tennessee is similar in every respect, except material, to that of the modern Navajo and Pueblo Indian. Yet the Swastikas of Mississippi and Tennessee belong to the oldest civilization we know in America, while the Navajo and Pueblo Swastikas were made by men still living. A consideration of the conditions bring out these two curious facts: (1) That the Swastika had an existence in America prior to any historic knowledge we have of communication between the two hemispheres; but (2) we find it continued in America and used at the present day, while the knowledge of it has long since died out in Europe.

The author is not unaware of the new theories concerning the parallelism of human development by which it is contended that absolute uniformity of man's thoughts and actions, aims and methods, is produced when he is in the same degree of development, no matter in what country or in what epoch he lives. This theory has been pushed

until it has been said, nothing but geographical environment seems to modify the monotonous sameness of man's creations. The author does not accept this theory, yet he does not here controvert it. It may be true to a certain extent, but it surely has its limitations, and it is only applicable under special conditions. As a general proposition, it might apply to races and peoples but not to individuals. If it builds on the hereditary human instincts, it does not take into account the will, energy, and reasoning powers of man. Most of all, it leaves out the egoism of man and his selfish desire for power, improvement, and happiness, and all their effects, through the individual, on human progress. In the author's opinion the progress of peoples through consecutive stages of civilization is entirely compatible with his belief that knowledge of specific objects, the uses of material things, the performance of certain rites, the playing of certain games, the possession of certain myths and traditions, and the carrying on of certain industries, passed from one country to another by migration of their peoples, or by contact or communication between them; and that the knowledge, by separate peoples, of the same things, within reasonable bounds of similarity of action and purpose, and with corresponding difficulty of performance, may well be treated as evidence of such migration, contact, or communication. Sir John Lubbock expresses the author's belief when he says, "There can be no doubt but that man originally crept over the earth's surface, little by little, year by year, just, for instance, as the weeds of Europe are now gradually but surely creeping over the surface of Australia." The word migration has been used by the author in any sense that permitted the people, or any number thereof, to pass from one country to another country, or from one section of a country to another section of the same country, by any means or in any numbers as they pleased or could.

The theory (in opposition to the foregoing) is growing in the United States that any similarity of culture between the two hemispheres is held to be proof of migration of peoples. It appears to the author that these schools both run to excess in propagating their respective theories, and that the true condition of affairs lies midway between them. That is to say, there was certain communication between the two hemispheres, as indicated by the similarities in culture and industry, the objects of which could scarcely have been the result of independent invention; while there are too many dissimilar arts, habits, customs, and modes of life belonging to one hemisphere only, not common to both, to permit us to say there was continuous communication between them. These dissimilarities were inventions of each hemisphere independent of the other.

An illustration of the migration to America is the culture of Greece. We know that Greek art and architecture enter into and form an important part of the culture of Americans of the present day; yet

¹"Prehistoric Man," p. 361.

the people of America are not Greek, nor do they possess any considerable share of Greek culture or civilization. They have none of the blood of the Greeks, nor their physical traits, nor their manners, habits, customs, dress, religion, nor, indeed, anything except their sculpture and architecture. Now, there was undoubtedly communication between the two countries in so far as pertains to art and architecture; but it is equally true that there has been no migration of the other elements of civilization mentioned.

The same thing may be true with regard to the migrations of prehistoric civilization. There may have been communication between the countries by which such objects as the polished stone hatchet, the bow and arrow, the leaf-shaped implement, clipped arrow- and spear heads, scrapers, spindle-whorls, the arts of pottery making, of weaving, of drilling and sawing stone, etc., passed from one to the other, and the same of the Swastika; yet these may all have been brought over in sporadic and isolated cases, importing simply the germ of their knowledge, leaving the industry to be independently worked out on this side. Certain manifestations of culture, dissimilar to those of the Old World, are found in America; we have the rude notched ax, the grooved ax, stemmed scraper, perforator, mortar and pestle, pipes, tubes, the ceremonial objects which are found here in such infinite varieties of shape and form, the metate, the painted pottery, etc., all of which belong to the American Indian civilization, but have no prototype in the prehistoric Old World. These things were never brought over by migration or otherwise. They are indigenous to America.

Objects common to both hemispheres exist in such numbers, of such infinite detail and difficulty of manufacture, that the probabilities of their migration or passage from one country to another is infinitely greater than that they were the result of independent invention. These common objects are not restricted to isolated cases. They are great in number and extensive in area. They have been the common tools and utensils such as might have belonged to every man, and no reason is known why they might not have been used by, and so represent, the millions of prehistoric individuals in either hemisphere. This great number of correspondences between the two hemispheres, and their similarity as to means and results is good evidence of migration, contact, or communication between the peoples; while the extent to which the common industries were carried in the two continents, their delicacy and difficulty of operation, completes the proof and forces conviction.

It is not to be understood in the few foregoing illustrations that the number is thereby exhausted, or that all have been noted which are within the knowledge of the author. These have been cited as illustrative of the proposition and indicating possibilities of the argument. If a completed argument in favor of prehistoric communication should be prepared, it would present many other illustrations. These could be found, not only among the objects of industry, utensils, etc., but in the modes of manufacture and of use which, owing to their number and the extent of territory which they cover, and the difficulty of accomplishment, would add force to the argument.